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TABLE 1. Doctoral scientists and engineers, by field of doctorate and employment status: 2003

Field	Total	Employed			Unemployed	Retired	Not employed, not seeking work
		All	Full time	Part time			
All fields	685,300	593,300	530,960	62,340	12,970	64,120	14,900
Science	542,240	468,570	415,420	53,150	9,790	51,190	12,680
Biological, agricultural, and environmental life sciences	168,780	145,760	135,280	10,480	3,020	15,240	4,770
Agricultural/food sciences	20,070	16,890	15,800	1,090	320	2,520	340
Biochemistry/biophysics	27,000	22,850	21,390	1,460	610	2,570	970
Cell/molecular biology	16,530	15,180	14,300	880	300	220	830
Environmental life sciences	6,590	5,620	5,250	360	70	860	S
Microbiology	13,290	10,970	10,150	820	340	1,590	400
Zoology	14,990	12,070	11,160	900	100	2,400	420
Other biological sciences	70,330	62,190	57,220	4,970	1,270	5,080	1,780
Computer and information sciences	12,680	11,960	11,040	930	310	120	300
Mathematics and statistics	33,510	28,330	25,990	2,340	680	3,830	660
Physical sciences	134,400	112,670	103,880	8,780	2,990	16,330	2,430
Astronomy/astrophysics	4,280	3,820	3,660	150	S	330	110
Chemistry, except biochemistry	69,460	57,040	52,410	4,630	1,770	9,270	1,390
Earth/atmospheric/ocean sciences	20,220	17,050	15,690	1,360	260	2,490	430
Physics	40,440	34,760	32,120	2,640	930	4,240	500
Psychology	102,280	91,410	70,330	21,070	1,600	6,360	2,920
Social sciences	90,580	78,450	68,900	9,550	1,200	9,330	1,610
Economics	25,440	22,060	19,890	2,170	210	2,850	320
Political sciences	20,520	17,730	15,510	2,220	260	2,210	330
Sociology	16,810	14,250	12,150	2,090	380	1,970	210
Other social sciences	27,810	24,410	21,350	3,060	360	2,300	740
Engineering	117,200	101,500	94,890	6,610	2,850	11,030	1,820
Aerospace/aeronautical/astronautical engineering	4,960	4,150	4,020	140	S	660	110
Chemical engineering	16,320	13,460	12,160	1,300	450	2,110	290
Civil engineering	10,490	9,170	8,650	520	190	1,070	70
Electrical/computer engineering	32,000	28,480	26,820	1,670	860	2,120	540
Materials/metallurgical engineering	12,300	10,820	10,000	820	180	1,100	200
Mechanical engineering	15,900	13,920	13,230	690	410	1,350	220
Other engineering	25,230	21,480	20,010	1,480	720	2,620	410
Health	25,850	23,230	20,650	2,580	330	1,900	400

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 2. Doctoral scientists and engineers, by broad field of doctorate, employment status, and sex: 2003

Employment status and field	Total	Male	Female
All fields	685,300	501,180	184,120
Employed full time	530,960	397,380	133,580
Employed part time	62,340	34,770	27,570
Unemployed	12,970	9,060	3,920
Retired	64,120	54,880	9,240
Not employed, not seeking work	14,900	5,090	9,810
Science	542,240	383,170	159,070
Employed full time	415,420	301,720	113,700
Employed part time	53,150	28,090	25,060
Unemployed	9,790	6,400	3,390
Retired	51,190	43,000	8,190
Not employed, not seeking work	12,680	3,960	8,720
Biological, agricultural, and environmental life sciences	168,780	117,330	51,460
Employed full time	135,280	95,550	39,730
Employed part time	10,480	5,630	4,850
Unemployed	3,020	1,930	1,090
Retired	15,240	12,870	2,370
Not employed, not seeking work	4,770	1,350	3,420
Computer and information sciences	12,680	10,570	2,110
Employed full time	11,040	9,440	1,600
Employed part time	930	680	240
Unemployed	310	240	70
Retired	120	50	60
Not employed, not seeking work	300	150	140
Mathematics and statistics	33,510	28,060	5,450
Employed full time	25,990	21,940	4,050
Employed part time	2,340	1,830	510
Unemployed	680	510	170
Retired	3,830	3,410	420
Not employed, not seeking work	660	370	300
Physical sciences	134,400	114,790	19,620
Employed full time	103,880	88,860	15,020
Employed part time	8,780	6,920	1,870
Unemployed	2,990	2,440	550
Retired	16,330	15,360	960
Not employed, not seeking work	2,430	1,210	1,210
Psychology	102,280	51,110	51,170
Employed full time	70,330	39,050	31,280
Employed part time	21,070	6,970	14,100
Unemployed	1,600	710	890
Retired	6,360	3,950	2,410
Not employed, not seeking work	2,920	430	2,490
Social sciences	90,580	61,320	29,260
Employed full time	68,900	46,880	22,020
Employed part time	9,550	6,060	3,490
Unemployed	1,200	580	620
Retired	9,330	7,350	1,980
Not employed, not seeking work	1,610	450	1,150
Engineering	117,200	107,210	10,000
Employed full time	94,890	86,820	8,060
Employed part time	6,610	5,860	750
Unemployed	2,850	2,560	300
Retired	11,030	10,890	140

TABLE 2. Doctoral scientists and engineers, by broad field of doctorate, employment status, and sex: 2003

Employment status and field	Total	Male	Female
Not employed, not seeking work	1,820	1,080	740
Health	25,850	10,800	15,060
Employed full time	20,650	8,830	11,820
Employed part time	2,580	830	1,750
Unemployed	330	90	230
Retired	1,900	990	910
Not employed, not seeking work	400	60	350

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 3. Doctoral scientists and engineers, by broad field of doctorate, employment status, and race/ethnicity: 2003 (corrected January 2011)

Employment status and field	Total	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other race[a]
All fields	685,300	1,120	104,780	17,240	17,590	536,420	8,140
Employed full time	530,960	860	90,310	14,470	14,610	404,060	6,660
Employed part time	62,340	120	4,690	1,400	1,610	53,810	710
Unemployed	12,970	S	2,810	380	360	9,300	120
Retired	64,120	50	5,060	760	670	57,130	450
Not employed, not seeking work	14,900	90	1,910	240	350	12,110	190
Science	542,240	1,030	65,700	14,060	14,330	440,560	6,560
Employed full time	415,420	800	55,950	11,660	11,800	330,010	5,200
Employed part time	53,150	110	3,600	1,160	1,450	46,170	670
Unemployed	9,790	S	1,440	310	310	7,610	120
Retired	51,190	S	3,280	710	480	46,330	360
Not employed, not seeking work	12,680	90	1,430	220	290	10,450	190
Biological, agricultural, and environmental life sciences	168,780	290	24,010	3,480	4,510	134,520	1,980
Employed full time	135,280	180	20,910	3,020	4,010	105,560	1,600
Employed part time	10,480	70	930	160	150	8,940	230
Unemployed	3,020	S	510	80	80	2,340	S
Retired	15,240	S	1,140	110	150	13,770	60
Not employed, not seeking work	4,770	S	520	110	120	3,910	80
Computer and information sciences	12,680	S	3,920	260	270	8,010	200
Employed full time	11,040	S	3,630	110	260	6,830	180
Employed part time	930	S	110	130	S	670	S
Unemployed	310	S	80	S	S	210	S
Retired	120	S	S	S	S	100	S
Not employed, not seeking work	300	S	90	S	S	200	S
Mathematics and statistics	33,510	S	6,190	620	730	25,720	250
Employed full time	25,990	S	5,210	560	590	19,430	210
Employed part time	2,340	S	490	S	S	1,760	S
Unemployed	680	S	160	S	50	460	S
Retired	3,830	S	270	S	S	3,470	S
Not employed, not seeking work	660	S	60	S	S	590	S
Physical sciences	134,400	210	21,580	1,760	2,640	106,770	1,440
Employed full time	103,880	190	18,440	1,570	2,370	79,980	1,340
Employed part time	8,780	S	920	80	110	7,660	S
Unemployed	2,990	S	530	60	S	2,360	S
Retired	16,330	S	1,270	S	100	14,800	90
Not employed, not seeking work	2,430	S	430	S	S	1,970	S
Psychology	102,280	210	2,530	3,750	3,540	90,910	1,350
Employed full time	70,330	160	1,830	3,090	2,350	61,910	990
Employed part time	21,070	S	420	420	920	19,090	210
Unemployed	1,600	S	50	90	90	1,310	50
Retired	6,360	S	110	130	60	5,990	70
Not employed, not seeking work	2,920	S	120	S	110	2,610	S
Social sciences	90,580	290	7,470	4,190	2,650	74,650	1,340
Employed full time	68,900	240	5,930	3,310	2,240	56,290	890
Employed part time	9,550	S	740	340	220	8,050	180
Unemployed	1,200	S	100	70	S	930	60
Retired	9,330	S	490	390	110	8,200	130
Not employed, not seeking work	1,610	S	210	70	S	1,180	90
Engineering	117,200	50	36,320	1,980	2,630	74,980	1,240
Employed full time	94,890	S	32,010	1,840	2,270	57,620	1,120
Employed part time	6,610	S	870	90	110	5,500	S
Unemployed	2,850	S	1,340	S	S	1,430	S
Retired	11,030	S	1,620	S	150	9,140	80
Not employed, not seeking work	1,820	S	480	S	S	1,290	S

TABLE 3. Doctoral scientists and engineers, by broad field of doctorate, employment status, and race/ethnicity: 2003 (corrected January 2011)

Employment status and field	Total	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Health	25,850	S	2,760	1,200	630	20,880	350
Employed full time	20,650	S	2,350	970	540	16,430	330
Employed part time	2,580	S	220	150	S	2,150	S
Unemployed	330	S	S	S	S	260	S
Retired	1,900	S	160	S	S	1,660	S
Not employed, not seeking work	400	S	S	S	S	370	S

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders (N=580) and non-Hispanic respondents reporting 2 or more races (N=7,560).

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 4. Selected employment characteristics of doctoral scientists and engineers, by field of doctorate: 2003
(Percent)

Field	Unemployment rate	Involuntarily out-of-field rate	Labor force participation rate
All fields	2.1	5.0	88.5
Science	2.0	5.2	88.2
Biological, agricultural, and environmental life sciences	2.0	4.2	88.1
Agricultural/food sciences	1.9	5.4	85.8
Biochemistry/biophysics	2.6	4.1	86.9
Cell/molecular biology	1.9	3.3	93.7
Environmental life sciences	1.3	4.0	86.4
Microbiology	3.0	3.6	85.1
Zoology	0.8	5.9	81.2
Other biological sciences	2.0	4.0	90.2
Computer and information sciences	2.5	4.0	96.7
Mathematics and statistics	2.4	6.2	86.6
Physical sciences	2.6	6.8	86.0
Astronomy/astrophysics	S	6.9	89.8
Chemistry, except biochemistry	3.0	5.7	84.7
Earth/atmospheric/ocean sciences	1.5	6.3	85.6
Physics	2.6	8.7	88.3
Psychology	1.7	4.6	90.9
Social sciences	1.5	5.1	87.9
Economics	0.9	2.2	87.5
Political sciences	1.4	5.7	87.6
Sociology	2.6	5.1	87.0
Other social sciences	1.5	7.3	89.1
Engineering	2.7	4.5	89.0
Aerospace/aeronautical/astronautical engineering	S	6.0	84.6
Chemical engineering	3.2	5.1	85.3
Civil engineering	2.1	2.4	89.2
Electrical/computer engineering	2.9	3.1	91.7
Materials/metallurgical engineering	1.6	8.6	89.4
Mechanical engineering	2.8	5.0	90.1
Other engineering	3.2	3.9	88.0
Health	1.4	2.5	91.1

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Unemployment rate (R_U) = U/(E+U). Involuntarily-out-of field rate is the percentage of employed individuals who reported working part time exclusively because suitable full-time work was not available and/or reported working in an area not related to the first doctoral degree (in their principal job) at least partially because suitable work in the field was not available. Labor force is defined as those employed (E) plus those unemployed and seeking work (U). Population (P) is defined as all S&E doctorate holders under age 76, residing in the United States during the week of October 1, 2003, who earned doctorates from U.S. institutions. Labor force participation rate (R_{LF}) = (E+U)/P.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 5. Doctoral scientists and engineers, by field of doctorate and sex: 2003

Field	Total	Male	Female	Total	Male	Female
	Number			Percent		
All fields	685,300	501,180	184,120	100.0	73.1	26.9
Science	542,240	383,170	159,070	100.0	70.7	29.3
Biological, agricultural, and environmental life sciences	168,780	117,330	51,460	100.0	69.5	30.5
Agricultural/food sciences	20,070	16,600	3,470	100.0	82.7	17.3
Biochemistry/biophysics	27,000	19,030	7,970	100.0	70.5	29.5
Cell/molecular biology	16,530	9,280	7,250	100.0	56.1	43.9
Environmental life sciences	6,590	5,490	1,100	100.0	83.4	16.6
Microbiology	13,290	8,830	4,460	100.0	66.5	33.5
Zoology	14,990	11,770	3,210	100.0	78.6	21.4
Other biological sciences	70,330	46,320	24,000	100.0	65.9	34.1
Computer and information sciences	12,680	10,570	2,110	100.0	83.3	16.7
Mathematics and statistics	33,510	28,060	5,450	100.0	83.7	16.3
Physical sciences	134,400	114,790	19,620	100.0	85.4	14.6
Astronomy/astrophysics	4,280	3,600	680	100.0	84.2	15.8
Chemistry, except biochemistry	69,460	56,860	12,600	100.0	81.9	18.1
Earth/atmospheric/ocean sciences	20,220	17,050	3,170	100.0	84.3	15.7
Physics	40,440	37,280	3,160	100.0	92.2	7.8
Psychology	102,280	51,110	51,170	100.0	50.0	50.0
Social sciences	90,580	61,320	29,260	100.0	67.7	32.3
Economics	25,440	20,780	4,660	100.0	81.7	18.3
Political sciences	20,520	15,240	5,280	100.0	74.3	25.7
Sociology	16,810	9,590	7,220	100.0	57.1	42.9
Other social sciences	27,810	15,700	12,100	100.0	56.5	43.5
Engineering	117,200	107,210	10,000	100.0	91.5	8.5
Aerospace/aeronautical/astronautical engineering	4,960	4,700	260	100.0	94.8	5.2
Chemical engineering	16,320	14,660	1,650	100.0	89.9	10.1
Civil engineering	10,490	9,740	750	100.0	92.8	7.2
Electrical/computer engineering	32,000	29,780	2,220	100.0	93.1	6.9
Materials/metallurgical engineering	12,300	10,820	1,490	100.0	87.9	12.1
Mechanical engineering	15,900	15,010	880	100.0	94.4	5.6
Other engineering	25,230	22,490	2,750	100.0	89.1	10.9
Health	25,850	10,800	15,060	100.0	41.8	58.2

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 6. Doctoral scientists and engineers, by field of doctorate and race/ethnicity: 2003 (corrected January 2011)

Field	Total	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other race[a]
	Number						
All fields	685,300	1,120	104,780	17,240	17,590	536,420	8,140
Science	542,240	1,030	65,700	14,060	14,330	440,560	6,560
Biological, agricultural, and environmental life sciences	168,780	290	24,010	3,480	4,510	134,520	1,980
Agricultural/food sciences	20,070	S	2,790	490	670	15,760	330
Biochemistry/biophysics	27,000	50	4,980	550	620	20,530	280
Cell/molecular biology	16,530	S	3,930	270	340	11,770	210
Environmental life sciences	6,590	S	530	70	170	5,750	S
Microbiology	13,290	S	1,800	280	390	10,710	90
Zoology	14,990	S	960	300	270	13,320	120
Other biological sciences	70,330	140	9,010	1,540	2,040	56,680	920
Computer and information sciences	12,680	S	3,920	260	270	8,010	200
Mathematics and statistics	33,510	S	6,190	620	730	25,720	250
Physical sciences	134,400	210	21,580	1,760	2,640	106,770	1,440
Astronomy/astrophysics	4,280	S	440	S	50	3,620	120
Chemistry, except biochemistry	69,460	140	12,040	1,240	1,570	53,730	740
Earth/atmospheric/ocean sciences	20,220	S	1,830	150	420	17,490	280
Physics	40,440	S	7,270	330	600	31,930	300
Psychology	102,280	210	2,530	3,750	3,540	90,910	1,350
Social sciences	90,580	290	7,470	4,190	2,650	74,650	1,340
Economics	25,440	S	3,520	740	740	20,170	260
Political sciences	20,520	S	1,030	1,270	440	17,440	330
Sociology	16,810	S	950	980	510	14,170	190
Other social sciences	27,810	240	1,970	1,200	970	22,870	570
Engineering	117,200	50	36,320	1,980	2,630	74,980	1,240
Aerospace/aeronautical/astronautical engineering	4,960	S	1,020	90	130	3,700	S
Chemical engineering	16,320	S	4,900	250	390	10,620	140
Civil engineering	10,490	S	2,740	360	380	6,870	150
Electrical/computer engineering	32,000	S	11,220	580	560	19,280	340
Materials/metallurgical engineering	12,300	S	4,040	150	250	7,730	110
Mechanical engineering	15,900	S	5,550	190	380	9,600	170
Other engineering	25,230	S	6,840	350	550	17,190	310
Health	25,850	S	2,760	1,200	630	20,880	350
	Percent						
All fields	100.0	0.2	15.3	2.5	2.6	78.3	1.2
Science	100.0	0.2	12.1	2.6	2.6	81.2	1.2
Biological, agricultural, and environmental life sciences	100.0	0.2	14.2	2.1	2.7	79.7	1.2
Agricultural/food sciences	100.0	S	13.9	2.4	3.4	78.5	1.7
Biochemistry/biophysics	100.0	0.2	18.4	2.0	2.3	76.0	1.1
Cell/molecular biology	100.0	S	23.8	1.6	2.1	71.2	1.3
Environmental life sciences	100.0	S	8.1	1.1	2.6	87.3	S
Microbiology	100.0	S	13.6	2.1	2.9	80.6	0.7
Zoology	100.0	S	6.4	2.0	1.8	88.9	0.8
Other biological sciences	100.0	0.2	12.8	2.2	2.9	80.6	1.3
Computer and information sciences	100.0	S	30.9	2.0	2.1	63.1	1.6
Mathematics and statistics	100.0	S	18.5	1.9	2.2	76.8	0.7
Physical sciences	100.0	0.2	16.1	1.3	2.0	79.4	1.1
Astronomy/astrophysics	100.0	S	10.4	S	1.2	84.6	2.7
Chemistry, except biochemistry	100.0	0.2	17.3	1.8	2.3	77.4	1.1
Earth/atmospheric/ocean sciences	100.0	S	9.1	0.7	2.1	86.5	1.4

TABLE 6. Doctoral scientists and engineers, by field of doctorate and race/ethnicity: 2003 (corrected January 2011)

Field	Total	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Physics	100.0	S	18.0	0.8	1.5	78.9	0.7
Psychology	100.0	0.2	2.5	3.7	3.5	88.9	1.3
Social sciences	100.0	0.3	8.2	4.6	2.9	82.4	1.5
Economics	100.0	S	13.8	2.9	2.9	79.3	1.0
Political sciences	100.0	S	5.0	6.2	2.1	85.0	1.6
Sociology	100.0	S	5.7	5.8	3.0	84.3	1.1
Other social sciences	100.0	0.9	7.1	4.3	3.5	82.2	2.0
Engineering	100.0	S	31.0	1.7	2.2	64.0	1.1
Aerospace/aeronautical/astronautical engineering	100.0	S	20.6	1.8	2.6	74.5	S
Chemical engineering	100.0	S	30.1	1.5	2.4	65.1	0.8
Civil engineering	100.0	S	26.1	3.5	3.6	65.5	1.4
Electrical/computer engineering	100.0	S	35.1	1.8	1.7	60.2	1.1
Materials/metallurgical engineering	100.0	S	32.9	1.2	2.1	62.8	0.9
Mechanical engineering	100.0	S	34.9	1.2	2.4	60.4	1.1
Other engineering	100.0	S	27.1	1.4	2.2	68.1	1.2
Health	100.0	S	10.7	4.7	2.4	80.8	1.3

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders (N=580) and non-Hispanic respondents reporting 2 or more races (N=7,560).

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 7. Doctoral scientists and engineers employed in postdocs, by field of doctorate: 2003

Field	Number	Percent
Total in postdoc [a]	19,780	100.0
Science	17,970	90.8
Biological, agricultural, and environmental life sciences	11,420	57.7
Agricultural/food sciences	500	2.5
Biochemistry/biophysics	1,880	9.5
Cell/molecular biology	2,330	11.8
Environmental life sciences	170	0.9
Microbiology	980	5.0
Zoology	480	2.4
Other biological sciences	5,070	25.6
Computer and information sciences	120	0.6
Mathematics and statistics	500	2.5
Physical sciences	3,460	17.5
Astronomy/astrophysics	330	1.7
Chemistry, except biochemistry	1,360	6.9
Earth/atmospheric/ocean sciences	590	3.0
Physics	1,170	5.9
Psychology	1,780	9.0
Social sciences	690	3.5
Economics	160	0.8
Political sciences	120	0.6
Sociology	S	S
Other social sciences	390	2.0
Engineering	1,330	6.7
Aerospace/aeronautical/astronautical engineering	70	0.4
Chemical engineering	220	1.1
Civil engineering	130	0.7
Electrical/computer engineering	210	1.1
Materials/metallurgical engineering	120	0.6
Mechanical engineering	190	1.0
Other engineering	380	1.9
Health	480	2.4

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Postdoc is a temporary position awarded in academe, industry, or government primarily for gaining additional education and training in research.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 8. Doctoral scientists and engineers employed in postdocs, by field of doctorate and selected characteristics: 2003 (corrected January 2011)

Characteristic	All fields		Biological, agricultural, and environmental life sciences		Other fields	
	Number	Percent	Number	Percent	Number	Percent
Total in postdoc[a]	19,780	100.0	11,420	100.0	8,360	100.0
Employment sector						
Business/industry	1,860	9.4	750	6.6	1,110	13.3
Educational institution	15,850	80.1	9,680	84.8	6,170	73.8
Government	2,070	10.5	990	8.7	1,080	12.9
Years since doctorate						
5 or less	16,820	85.0	9,560	83.7	7,260	86.8
6–10	1,990	10.1	1,410	12.3	580	6.9
11–15	410	2.1	280	2.5	130	1.6
More than 15	560	2.8	170	1.5	390	4.7
Sex						
Male	11,960	60.5	6,470	56.7	5,500	65.8
Female	7,820	39.5	4,950	43.3	2,860	34.2
Race/ethnicity						
American Indian/Alaska Native	S	S	S	S	S	S
Asian	5,560	28.1	3,330	29.2	2,220	26.6
Black	510	2.6	200	1.8	310	3.7
Hispanic	890	4.5	490	4.3	400	4.8
White	12,570	63.5	7,290	63.8	5,290	63.3
Other race[b]	220	1.1	90	0.8	140	1.7
Age						
Under 35	10,600	53.6	6,020	52.7	4,580	54.8
35–44	7,240	36.6	4,570	40.0	2,680	32.1
45–75	1,940	9.8	840	7.4	1,100	13.2
Citizenship status						
U.S. citizen, native	11,910	60.2	7,060	61.8	4,850	58.0
U.S. citizen, naturalized	1,640	8.3	1,050	9.2	590	7.1
Non-U.S. citizen, permanent resident	1,920	9.7	1,340	11.7	580	6.9
Non-U.S. citizen, temporary resident	4,310	21.8	1,980	17.3	2,340	28.0

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Postdoc is a temporary position awarded in academe, industry, or government primarily for gaining additional education and training in research.

[b] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 9. Employed doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 2003 (corrected January 2011)

Field	Total			American Indian/ Alaska Native			Asian			Black			Hispanic			White			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	Number																				
All fields	593,300	432,150	161,150	970	680	290	95,000	73,060	21,940	15,860	9,500	6,360	16,220	10,350	5,880	457,870	333,450	124,420	7,380	5,110	2,260
Science	468,570	329,810	138,760	910	660	240	59,550	41,840	17,710	12,820	7,380	5,440	13,250	8,050	5,200	376,180	268,000	108,170	5,870	3,880	1,990
Biological, agricultural, and environmental life sciences	145,760	101,180	44,580	250	230	S	21,840	13,590	8,250	3,170	1,880	1,290	4,160	2,620	1,540	114,500	81,570	32,930	1,830	1,280	550
Agricultural/food sciences	16,890	13,910	2,980	S	S	S	2,620	1,900	720	450	390	60	590	440	150	12,930	10,900	2,020	310	270	S
Biochemistry/biophysics	22,850	16,220	6,630	50	50	S	4,400	2,640	1,760	420	220	200	540	440	100	17,180	12,680	4,500	260	190	70
Cell/molecular biology	15,180	8,840	6,340	S	S	S	3,720	1,960	1,760	260	160	100	330	130	200	10,680	6,470	4,210	180	110	70
Environmental life sciences	5,620	4,600	1,010	S	S	S	480	340	140	70	60	S	170	130	S	4,830	4,030	800	S	S	S
Microbiology	10,970	7,250	3,720	S	S	S	1,650	1,050	600	250	130	120	390	250	140	8,590	5,770	2,820	80	50	S
Zoology	12,070	9,460	2,610	S	S	S	810	570	240	280	190	90	260	200	60	10,580	8,400	2,180	120	80	S
Other biological sciences	62,190	40,900	21,290	120	120	S	8,150	5,130	3,020	1,440	730	710	1,890	1,040	850	49,720	33,310	16,410	860	570	290
Computer and information sciences	11,960	10,120	1,840	S	S	S	3,740	3,210	530	250	180	70	260	220	S	7,500	6,330	1,170	200	150	S
Mathematics and statistics	28,330	23,770	4,560	S	S	S	5,690	4,580	1,120	580	460	120	630	540	90	21,190	18,000	3,200	230	200	S
Physical sciences	112,670	95,780	16,890	190	160	S	19,360	15,090	4,270	1,660	1,360	300	2,480	1,960	520	87,640	76,160	11,480	1,350	1,060	280
Astronomy/astrophysics	3,820	3,220	590	S	S	S	420	350	70	S	S	S	50	S	S	3,180	2,720	460	120	90	S
Chemistry, except biochemistry	57,040	46,340	10,690	120	90	S	10,570	7,710	2,860	1,190	930	260	1,490	1,120	370	42,960	35,990	6,970	700	500	210
Earth/atmospheric/ ocean sciences	17,050	14,230	2,820	S	S	S	1,710	1,380	330	140	130	S	380	320	70	14,510	12,120	2,390	270	240	S
Physics	34,760	31,980	2,780	S	S	S	6,660	5,650	1,010	300	260	S	550	490	60	26,980	25,320	1,660	250	240	S
Psychology	91,410	46,030	45,380	180	110	70	2,250	720	1,540	3,510	1,230	2,280	3,270	1,150	2,120	81,000	42,320	38,680	1,200	510	690
Social sciences	78,450	52,940	25,510	260	140	120	6,680	4,660	2,010	3,650	2,270	1,380	2,450	1,560	890	64,340	43,630	20,720	1,060	670	390
Economics	22,060	17,980	4,080	S	S	S	3,190	2,380	810	650	530	120	660	590	70	17,410	14,330	3,080	160	150	S
Political sciences	17,730	12,980	4,750	S	S	S	860	590	270	1,080	730	350	410	260	150	15,090	11,240	3,850	270	170	100
Sociology	14,250	8,010	6,230	S	S	S	800	500	300	890	500	390	500	270	230	11,870	6,620	5,250	180	110	70
Other social sciences	24,410	13,950	10,450	230	140	90	1,830	1,190	640	1,030	510	520	890	440	440	19,970	11,430	8,540	450	240	210
Engineering	101,500	92,690	8,820	S	S	S	32,880	29,800	3,090	1,920	1,690	240	2,390	2,130	250	63,120	57,950	5,170	1,160	1,110	50
Aerospace/aeronautical/ astronautical engineering	4,150	3,930	220	S	S	S	970	910	60	90	80	S	130	100	S	2,950	2,810	130	S	S	S
Chemical engineering	13,460	12,110	1,350	S	S	S	4,150	3,710	440	250	180	70	330	300	S	8,590	7,780	810	140	140	S
Civil engineering	9,170	8,480	690	S	S	S	2,380	2,190	190	360	360	S	370	360	S	5,910	5,430	470	150	140	S
Electrical/computer engineering	28,480	26,460	2,030	S	S	S	10,360	9,500	870	570	530	S	540	450	90	16,670	15,650	1,030	340	340	S
Materials/metallurgical engineering	10,820	9,530	1,290	S	S	S	3,730	3,290	430	150	120	S	200	180	S	6,640	5,830	810	80	80	S
Mechanical engineering	13,920	13,160	760	S	S	S	5,150	4,720	440	180	170	S	320	300	S	8,100	7,810	290	170	170	S
Other engineering	21,480	19,020	2,460	S	S	S	6,130	5,470	660	330	250	80	510	440	60	14,270	12,640	1,630	260	220	S
Health	23,230	9,660	13,570	S	S	S	2,570	1,420	1,150	1,120	440	680	580	170	420	18,570	7,510	11,070	340	120	220

TABLE 9. Employed doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 2003 (corrected January 2011)

Field	Total			American Indian/ Alaska Native			Asian			Black			Hispanic			White			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	Percent																				
All fields	100.0	72.8	27.2	100.0	70.2	29.8	100.0	76.9	23.1	100.0	59.9	40.1	100.0	63.8	36.2	100.0	72.8	27.2	100.0	69.3	30.7
Science	100.0	70.4	29.6	100.0	73.1	26.9	100.0	70.3	29.7	100.0	57.6	42.4	100.0	60.7	39.3	100.0	71.2	28.8	100.0	66.1	33.9
Biological, agricultural, and environmental life sciences	100.0	69.4	30.6	100.0	92.7	S	100.0	62.2	37.8	100.0	59.4	40.6	100.0	62.9	37.1	100.0	71.2	28.8	100.0	69.9	30.1
Agricultural/food sciences	100.0	82.3	17.7	100.0	S	S	100.0	72.3	27.7	100.0	87.6	12.4	100.0	75.3	24.7	100.0	84.3	15.7	100.0	89.3	S
Biochemistry/biophysics	100.0	71.0	29.0	100.0	100.0	S	100.0	60.1	39.9	100.0	52.2	47.8	100.0	81.7	18.3	100.0	73.8	26.2	100.0	71.9	28.1
Cell/molecular biology	100.0	58.2	41.8	100.0	S	S	100.0	52.6	47.4	100.0	62.8	37.2	100.0	39.9	60.1	100.0	60.6	39.4	100.0	62.4	37.6
Environmental life sciences	100.0	82.0	18.0	100.0	S	S	100.0	70.8	29.2	100.0	78.7	S	100.0	73.3	S	100.0	83.5	16.5	100.0	S	S
Microbiology	100.0	66.1	33.9	100.0	S	S	100.0	63.4	36.6	100.0	53.1	46.9	100.0	64.2	35.8	100.0	67.2	32.8	100.0	60.8	S
Zoology	100.0	78.4	21.6	100.0	S	S	100.0	70.8	29.2	100.0	66.8	33.2	100.0	75.5	24.5	100.0	79.4	20.6	100.0	67.9	S
Other biological sciences	100.0	65.8	34.2	100.0	96.3	S	100.0	62.9	37.1	100.0	50.7	49.3	100.0	54.9	45.1	100.0	67.0	33.0	100.0	66.2	33.8
Computer and information sciences	100.0	84.6	15.4	100.0	S	S	100.0	85.8	14.2	100.0	72.2	27.8	100.0	86.9	S	100.0	84.4	15.6	100.0	78.7	S
Mathematics and statistics	100.0	83.9	16.1	100.0	S	S	100.0	80.4	19.6	100.0	79.0	21.0	100.0	85.4	14.6	100.0	84.9	15.1	100.0	86.9	S
Physical sciences	100.0	85.0	15.0	100.0	84.0	S	100.0	77.9	22.1	100.0	81.7	18.3	100.0	79.0	21.0	100.0	86.9	13.1	100.0	78.9	21.1
Astronomy/astrophysics	100.0	84.5	15.5	100.0	S	S	100.0	83.8	16.2	100.0	S	S	100.0	S	S	100.0	85.4	14.6	100.0	73.6	S
Chemistry, except biochemistry	100.0	81.2	18.8	100.0	78.8	S	100.0	72.9	27.1	100.0	78.1	21.9	100.0	74.9	25.1	100.0	83.8	16.2	100.0	70.7	29.3
Earth/atmospheric/ ocean sciences	100.0	83.5	16.5	100.0	S	S	100.0	80.6	19.4	100.0	95.6	S	100.0	82.9	17.1	100.0	83.5	16.5	100.0	89.6	S
Physics	100.0	92.0	8.0	100.0	S	S	100.0	84.9	15.1	100.0	89.3	S	100.0	88.5	11.5	100.0	93.9	6.1	100.0	92.6	S
Psychology	100.0	50.4	49.6	100.0	60.1	39.9	100.0	31.8	68.2	100.0	35.0	65.0	100.0	35.1	64.9	100.0	52.2	47.8	100.0	42.1	57.9
Social sciences	100.0	67.5	32.5	100.0	53.4	46.6	100.0	69.8	30.2	100.0	62.2	37.8	100.0	63.7	36.3	100.0	67.8	32.2	100.0	63.5	36.5
Economics	100.0	81.5	18.5	100.0	S	S	100.0	74.6	25.4	100.0	82.0	18.0	100.0	89.4	10.6	100.0	82.3	17.7	100.0	95.5	S
Political sciences	100.0	73.2	26.8	100.0	S	S	100.0	68.8	31.2	100.0	67.2	32.8	100.0	63.6	36.4	100.0	74.5	25.5	100.0	62.9	37.1
Sociology	100.0	56.2	43.8	100.0	S	S	100.0	62.7	37.3	100.0	56.5	43.5	100.0	54.2	45.8	100.0	55.8	44.2	100.0	62.5	37.5
Other social sciences	100.0	57.2	42.8	100.0	59.9	40.1	100.0	65.2	34.8	100.0	49.3	50.7	100.0	50.0	50.0	100.0	57.2	42.8	100.0	52.9	47.1
Engineering	100.0	91.3	8.7	100.0	S	S	100.0	90.6	9.4	100.0	87.5	12.5	100.0	89.3	10.7	100.0	91.8	8.2	100.0	95.5	4.5
Aerospace/aeronautical/ astronautical engineering	100.0	94.6	5.4	100.0	S	S	100.0	94.0	6.0	100.0	93.9	S	100.0	76.6	S	100.0	95.5	4.5	100.0	S	S
Chemical engineering	100.0	89.9	10.1	100.0	S	S	100.0	89.3	10.7	100.0	71.9	28.1	100.0	92.2	S	100.0	90.6	9.4	100.0	100.0	S
Civil engineering	100.0	92.5	7.5	100.0	S	S	100.0	91.9	8.1	100.0	98.3	S	100.0	98.0	S	100.0	92.0	8.0	100.0	93.2	S
Electrical/computer engineering	100.0	92.9	7.1	100.0	S	S	100.0	91.6	8.4	100.0	92.7	S	100.0	83.5	16.5	100.0	93.8	6.2	100.0	98.5	S
Materials/metallurgical engineering	100.0	88.0	12.0	100.0	S	S	100.0	88.3	11.7	100.0	83.7	S	100.0	88.9	S	100.0	87.7	12.3	100.0	100.0	S

TABLE 9. Employed doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 2003 (corrected January 2011)

Field	Total			American Indian/ Alaska Native			Asian			Black			Hispanic			White			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Mechanical engineering	100.0	94.5	5.5	100.0	S	S	100.0	91.5	8.5	100.0	94.3	S	100.0	94.3	S	100.0	96.4	3.6	100.0	96.9	S
Other engineering	100.0	88.5	11.5	100.0	S	S	100.0	89.3	10.7	100.0	74.9	25.1	100.0	87.5	12.5	100.0	88.6	11.4	100.0	87.7	S
Health	100.0	41.6	58.4	100.0	S	S	100.0	55.4	44.6	100.0	39.2	60.8	100.0	28.3	71.7	100.0	40.4	59.6	100.0	35.7	64.3

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 10. Employed doctoral scientists and engineers, by field of doctorate and citizenship status: 2003

Field	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
	Number						
All fields	593,300	533,960	445,960	88,000	59,340	39,620	19,720
Science	468,570	429,690	372,510	57,190	38,880	26,010	12,870
Biological, agricultural, and environmental life sciences	145,760	132,930	114,320	18,610	12,830	8,640	4,190
Agricultural/food sciences	16,890	15,200	12,570	2,630	1,690	1,110	580
Biochemistry/biophysics	22,850	20,590	16,900	3,700	2,250	1,660	590
Cell/molecular biology	15,180	13,060	10,630	2,430	2,120	1,580	540
Environmental life sciences	5,620	5,240	4,860	390	370	240	130
Microbiology	10,970	9,910	8,600	1,310	1,060	650	410
Zoology	12,070	11,680	10,530	1,150	390	240	150
Other biological sciences	62,190	57,250	50,240	7,010	4,940	3,150	1,800
Computer and information sciences	11,960	9,040	6,510	2,530	2,920	2,070	850
Mathematics and statistics	28,330	24,410	19,200	5,210	3,920	2,550	1,370
Physical sciences	112,670	101,760	83,690	18,070	10,900	6,970	3,940
Astronomy/astrophysics	3,820	3,500	3,140	360	320	270	S
Chemistry, except biochemistry	57,040	51,740	42,390	9,350	5,290	3,500	1,800
Earth/atmospheric/ocean sciences	17,050	15,580	13,710	1,870	1,470	930	540
Physics	34,760	30,940	24,450	6,490	3,820	2,270	1,550
Psychology	91,410	89,570	84,980	4,590	1,830	1,380	450
Social sciences	78,450	71,980	63,810	8,180	6,470	4,400	2,060
Economics	22,060	18,830	15,960	2,870	3,230	1,960	1,270
Political sciences	17,730	16,870	15,140	1,730	860	670	190
Sociology	14,250	13,550	12,430	1,120	690	500	200
Other social sciences	24,410	22,730	20,270	2,460	1,680	1,280	410
Engineering	101,500	82,920	54,610	28,310	18,580	12,370	6,210
Aerospace/aeronautical/astronautical engineering	4,150	3,520	2,610	910	630	390	240
Chemical engineering	13,460	11,230	7,980	3,250	2,240	1,590	650
Civil engineering	9,170	7,620	4,540	3,070	1,550	950	600
Electrical/computer engineering	28,480	22,240	13,920	8,330	6,240	4,110	2,130
Materials/metallurgical engineering	10,820	8,880	6,200	2,680	1,950	1,430	520
Mechanical engineering	13,920	11,360	6,930	4,430	2,570	1,550	1,020
Other engineering	21,480	18,080	12,440	5,640	3,400	2,350	1,050
Health	23,230	21,340	18,840	2,500	1,880	1,250	640
	Percent						
All fields	100.0	90.0	75.2	14.8	10.0	6.7	3.3
Science	100.0	91.7	79.5	12.2	8.3	5.6	2.7
Biological, agricultural, and environmental life sciences	100.0	91.2	78.4	12.8	8.8	5.9	2.9
Agricultural/food sciences	100.0	90.0	74.4	15.6	10.0	6.6	3.4
Biochemistry/biophysics	100.0	90.1	74.0	16.2	9.9	7.3	2.6
Cell/molecular biology	100.0	86.0	70.0	16.0	14.0	10.4	3.6
Environmental life sciences	100.0	93.4	86.5	6.9	6.6	4.3	2.3
Microbiology	100.0	90.3	78.4	11.9	9.7	6.0	3.7
Zoology	100.0	96.8	87.2	9.6	3.2	2.0	1.2
Other biological sciences	100.0	92.1	80.8	11.3	7.9	5.1	2.9
Computer and information sciences	100.0	75.6	54.4	21.2	24.4	17.3	7.1
Mathematics and statistics	100.0	86.2	67.8	18.4	13.8	9.0	4.8
Physical sciences	100.0	90.3	74.3	16.0	9.7	6.2	3.5
Astronomy/astrophysics	100.0	91.6	82.2	9.4	8.4	7.1	0.0
Chemistry, except biochemistry	100.0	90.7	74.3	16.4	9.3	6.1	3.1

TABLE 10. Employed doctoral scientists and engineers, by field of doctorate and citizenship status: 2003

Field	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
Earth/atmospheric/ocean sciences	100.0	91.4	80.4	11.0	8.6	5.4	3.2
Physics	100.0	89.0	70.3	18.7	11.0	6.5	4.5
Psychology	100.0	98.0	93.0	5.0	2.0	1.5	0.5
Social sciences	100.0	91.8	81.3	10.4	8.2	5.6	2.6
Economics	100.0	85.4	72.4	13.0	14.6	8.9	5.8
Political sciences	100.0	95.1	85.4	9.8	4.9	3.8	1.1
Sociology	100.0	95.1	87.3	7.9	4.9	3.5	1.4
Other social sciences	100.0	93.1	83.1	10.1	6.9	5.2	1.7
Engineering	100.0	81.7	53.8	27.9	18.3	12.2	6.1
Aerospace/aeronautical/astronautical engineering	100.0	84.7	62.7	22.0	15.3	9.4	5.9
Chemical engineering	100.0	83.4	59.3	24.1	16.6	11.8	4.8
Civil engineering	100.0	83.1	49.6	33.5	16.9	10.4	6.5
Electrical/computer engineering	100.0	78.1	48.9	29.2	21.9	14.4	7.5
Materials/metallurgical engineering	100.0	82.0	57.3	24.7	18.0	13.2	4.8
Mechanical engineering	100.0	81.6	49.8	31.8	18.4	11.1	7.3
Other engineering	100.0	84.2	57.9	26.3	15.8	10.9	4.9
Health	100.0	91.9	81.1	10.8	8.1	5.4	2.7

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 11. Employed doctoral scientists and engineers, by field of doctorate and age: 2003

Field	Total	Under 35	35–39	40–44	45–49	50–54	55–59	60–64	65–75
	Number								
All fields	593,300	60,020	79,400	88,710	92,610	90,340	84,690	62,350	35,180
Science	468,570	45,650	59,880	66,850	74,460	73,950	69,740	50,500	27,550
Biological, agricultural, and environmental life sciences	145,760	15,190	21,110	22,440	25,890	22,890	18,280	13,080	6,880
Agricultural/food sciences	16,890	910	1,700	2,560	3,960	3,050	2,050	1,760	900
Biochemistry/biophysics	22,850	2,410	3,590	3,240	3,440	3,810	2,880	2,380	1,090
Cell/molecular biology	15,180	2,460	3,620	3,450	2,850	1,290	910	450	140
Environmental life sciences	5,620	420	710	700	990	930	1,050	710	90
Microbiology	10,970	900	1,620	1,700	1,660	1,620	1,390	1,100	990
Zoology	12,070	670	850	1,270	1,780	2,070	2,610	1,890	930
Other biological sciences	62,190	7,410	9,010	9,520	11,200	10,110	7,390	4,810	2,740
Computer and information sciences	11,960	1,990	2,360	2,940	2,210	1,540	750	150	S
Mathematics and statistics	28,330	2,970	3,990	3,290	3,580	3,820	4,500	4,210	1,970
Physical sciences	112,670	12,710	15,040	18,000	17,110	14,000	15,160	13,110	7,540
Astronomy/astrophysics	3,820	570	690	640	440	540	450	310	180
Chemistry, except biochemistry	57,040	7,310	7,540	9,310	9,000	6,780	7,180	6,490	3,410
Earth/atmospheric/ocean sciences	17,050	1,140	1,780	3,070	3,230	2,870	2,490	1,400	1,060
Physics	34,760	3,690	5,030	4,970	4,440	3,810	5,030	4,900	2,900
Psychology	91,410	7,720	9,310	11,120	14,030	17,670	16,990	8,680	5,900
Social sciences	78,450	5,060	8,080	9,080	11,640	14,030	14,050	11,270	5,240
Economics	22,060	1,790	2,530	2,730	3,580	3,390	3,990	2,850	1,200
Political sciences	17,730	1,300	2,130	2,150	2,330	2,800	3,100	2,560	1,350
Sociology	14,250	740	1,290	1,560	1,730	2,750	2,540	2,330	1,310
Other social sciences	24,410	1,230	2,120	2,630	4,000	5,090	4,430	3,530	1,390
Engineering	101,500	12,570	17,080	19,010	14,510	11,040	11,000	9,650	6,630
Aerospace/aeronautical/astronautical engineering	4,150	580	990	660	320	490	380	410	330
Chemical engineering	13,460	2,090	2,030	2,490	2,110	1,130	1,390	1,260	970
Civil engineering	9,170	770	1,340	1,650	1,230	1,030	1,410	1,100	640
Electrical/computer engineering	28,480	3,710	5,080	5,770	4,110	2,530	3,130	2,230	1,930
Materials/metallurgical engineering	10,820	1,430	2,130	2,220	1,690	1,360	610	910	470
Mechanical engineering	13,920	1,800	2,600	2,600	2,050	1,580	1,330	1,070	890
Other engineering	21,480	2,200	2,910	3,620	3,000	2,910	2,760	2,670	1,410
Health	23,230	1,810	2,440	2,850	3,630	5,350	3,950	2,200	990
	Percent								
All fields	100.0	10.1	13.4	15.0	15.6	15.2	14.3	10.5	5.9
Science	100.0	9.7	12.8	14.3	15.9	15.8	14.9	10.8	5.9
Biological, agricultural, and environmental life sciences	100.0	10.4	14.5	15.4	17.8	15.7	12.5	9.0	4.7
Agricultural/food sciences	100.0	5.4	10.1	15.2	23.5	18.1	12.1	10.4	5.3
Biochemistry/biophysics	100.0	10.6	15.7	14.2	15.1	16.7	12.6	10.4	4.8
Cell/molecular biology	100.0	16.2	23.8	22.8	18.8	8.5	6.0	3.0	0.9
Environmental life sciences	100.0	7.5	12.7	12.5	17.6	16.6	18.8	12.7	1.7
Microbiology	100.0	8.2	14.7	15.5	15.1	14.8	12.7	10.0	9.0
Zoology	100.0	5.5	7.0	10.5	14.7	17.2	21.6	15.6	7.7
Other biological sciences	100.0	11.9	14.5	15.3	18.0	16.3	11.9	7.7	4.4
Computer and information sciences	100.0	16.7	19.7	24.5	18.5	12.9	6.2	1.3	S
Mathematics and statistics	100.0	10.5	14.1	11.6	12.6	13.5	15.9	14.9	7.0
Physical sciences	100.0	11.3	13.3	16.0	15.2	12.4	13.5	11.6	6.7
Astronomy/astrophysics	100.0	15.0	18.1	16.7	11.6	14.0	11.8	8.3	4.6
Chemistry, except biochemistry	100.0	12.8	13.2	16.3	15.8	11.9	12.6	11.4	6.0
Earth/atmospheric/ocean sciences	100.0	6.7	10.4	18.0	18.9	16.9	14.6	8.2	6.2
Physics	100.0	10.6	14.5	14.3	12.8	10.9	14.5	14.1	8.3

TABLE 11. Employed doctoral scientists and engineers, by field of doctorate and age: 2003

Field	Total	Under 35	35–39	40–44	45–49	50–54	55–59	60–64	65–75
Psychology	100.0	8.4	10.2	12.2	15.3	19.3	18.6	9.5	6.4
Social sciences	100.0	6.5	10.3	11.6	14.8	17.9	17.9	14.4	6.7
Economics	100.0	8.1	11.5	12.4	16.2	15.4	18.1	12.9	5.4
Political sciences	100.0	7.4	12.0	12.1	13.1	15.8	17.5	14.4	7.6
Sociology	100.0	5.2	9.1	11.0	12.2	19.3	17.8	16.3	9.2
Other social sciences	100.0	5.0	8.7	10.8	16.4	20.8	18.1	14.5	5.7
Engineering	100.0	12.4	16.8	18.7	14.3	10.9	10.8	9.5	6.5
Aerospace/aeronautical/astronautical engineering	100.0	13.9	23.7	15.9	7.7	11.9	9.1	9.8	8.0
Chemical engineering	100.0	15.5	15.1	18.5	15.7	8.4	10.3	9.4	7.2
Civil engineering	100.0	8.4	14.6	18.0	13.4	11.2	15.4	12.0	7.0
Electrical/computer engineering	100.0	13.0	17.8	20.3	14.4	8.9	11.0	7.8	6.8
Materials/metallurgical engineering	100.0	13.2	19.7	20.6	15.6	12.6	5.6	8.4	4.3
Mechanical engineering	100.0	13.0	18.7	18.7	14.7	11.4	9.5	7.7	6.4
Other engineering	100.0	10.2	13.6	16.8	14.0	13.6	12.8	12.4	6.6
Health	100.0	7.8	10.5	12.3	15.6	23.0	17.0	9.5	4.3

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 12. Employed doctoral scientists and engineers, by field of doctorate and years since doctorate: 2003

Field	Total	5 or less	6–10	11–15	16–20	21–25	More than 25
	Number						
All fields	593,300	115,610	107,560	87,230	76,620	68,200	138,080
Science	468,570	86,900	80,310	67,550	63,170	57,650	113,000
Biological, agricultural, and environmental life sciences	145,760	28,460	26,560	21,600	19,530	18,140	31,470
Agricultural/food sciences	16,890	2,450	2,570	3,140	2,850	2,170	3,720
Biochemistry/biophysics	22,850	3,840	4,040	2,660	2,980	3,290	6,040
Cell/molecular biology	15,180	4,400	4,110	2,600	1,830	900	1,350
Environmental life sciences	5,620	1,500	870	690	730	710	1,110
Microbiology	10,970	1,890	1,960	1,590	900	1,510	3,110
Zoology	12,070	1,630	1,320	1,320	1,680	1,820	4,300
Other biological sciences	62,190	12,750	11,690	9,600	8,560	7,740	11,840
Computer and information sciences	11,960	3,740	3,660	2,470	1,370	720	S
Mathematics and statistics	28,330	4,560	4,550	3,630	3,060	3,020	9,520
Physical sciences	112,670	18,390	18,270	16,260	14,600	12,290	32,850
Astronomy/astrophysics	3,820	710	780	450	500	490	880
Chemistry, except biochemistry	57,040	9,410	8,690	8,470	7,470	6,280	16,730
Earth/atmospheric/ocean sciences	17,050	3,000	3,040	2,620	2,590	2,240	3,560
Physics	34,760	5,270	5,770	4,720	4,040	3,280	11,690
Psychology	91,410	16,720	14,880	13,320	14,160	12,630	19,690
Social sciences	78,450	15,030	12,390	10,270	10,440	10,860	19,460
Economics	22,060	3,440	3,190	2,900	3,040	3,210	6,280
Political sciences	17,730	3,880	3,170	2,020	1,760	1,910	4,980
Sociology	14,250	2,500	1,890	1,730	2,080	2,450	3,600
Other social sciences	24,410	5,210	4,140	3,620	3,550	3,290	4,600
Engineering	101,500	21,970	21,910	15,990	10,720	8,260	22,650
Aerospace/aeronautical/astronautical engineering	4,150	920	1,090	450	350	160	1,180
Chemical engineering	13,460	2,540	2,350	2,320	1,910	850	3,490
Civil engineering	9,170	1,860	1,830	1,640	1,010	600	2,230
Electrical/computer engineering	28,480	6,570	6,580	4,440	2,680	2,120	6,100
Materials/metallurgical engineering	10,820	2,240	2,960	1,780	1,080	1,020	1,730
Mechanical engineering	13,920	3,400	3,030	2,220	1,450	1,050	2,770
Other engineering	21,480	4,440	4,070	3,130	2,230	2,460	5,150
Health	23,230	6,740	5,340	3,700	2,730	2,290	2,430
	Percent						
All fields	100.0	19.5	18.1	14.7	12.9	11.5	23.3
Science	100.0	18.5	17.1	14.4	13.5	12.3	24.1
Biological, agricultural, and environmental life sciences	100.0	19.5	18.2	14.8	13.4	12.4	21.6
Agricultural/food sciences	100.0	14.5	15.2	18.6	16.9	12.8	22.0
Biochemistry/biophysics	100.0	16.8	17.7	11.6	13.1	14.4	26.5
Cell/molecular biology	100.0	29.0	27.1	17.1	12.1	5.9	8.9
Environmental life sciences	100.0	26.6	15.5	12.3	13.0	12.7	19.8
Microbiology	100.0	17.2	17.9	14.5	8.2	13.8	28.3
Zoology	100.0	13.5	11.0	10.9	13.9	15.1	35.6
Other biological sciences	100.0	20.5	18.8	15.4	13.8	12.4	19.0
Computer and information sciences	100.0	31.3	30.6	20.7	11.5	6.0	S
Mathematics and statistics	100.0	16.1	16.0	12.8	10.8	10.6	33.6
Physical sciences	100.0	16.3	16.2	14.4	13.0	10.9	29.2
Astronomy/astrophysics	100.0	18.6	20.3	11.9	13.2	12.9	23.1
Chemistry, except biochemistry	100.0	16.5	15.2	14.9	13.1	11.0	29.3
Earth/atmospheric/ocean sciences	100.0	17.6	17.8	15.4	15.2	13.1	20.9

TABLE 12. Employed doctoral scientists and engineers, by field of doctorate and years since doctorate: 2003

Field	Total	5 or less	6–10	11–15	16–20	21–25	More than 25
Physics	100.0	15.2	16.6	13.6	11.6	9.4	33.6
Psychology	100.0	18.3	16.3	14.6	15.5	13.8	21.5
Social sciences	100.0	19.2	15.8	13.1	13.3	13.8	24.8
Economics	100.0	15.6	14.5	13.1	13.8	14.5	28.5
Political sciences	100.0	21.9	17.9	11.4	10.0	10.8	28.1
Sociology	100.0	17.6	13.3	12.1	14.6	17.2	25.3
Other social sciences	100.0	21.3	17.0	14.8	14.6	13.5	18.8
Engineering	100.0	21.6	21.6	15.7	10.6	8.1	22.3
Aerospace/aeronautical/astronautical engineering	100.0	22.2	26.2	10.9	8.3	3.8	28.5
Chemical engineering	100.0	18.8	17.5	17.2	14.2	6.3	25.9
Civil engineering	100.0	20.3	19.9	17.9	11.0	6.5	24.4
Electrical/computer engineering	100.0	23.1	23.1	15.6	9.4	7.4	21.4
Materials/metallurgical engineering	100.0	20.7	27.4	16.5	10.0	9.4	16.0
Mechanical engineering	100.0	24.4	21.8	16.0	10.4	7.6	19.9
Other engineering	100.0	20.7	18.9	14.6	10.4	11.4	24.0
Health	100.0	29.0	23.0	15.9	11.8	9.9	10.4

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 13. Employed doctoral scientists and engineers, by field of doctorate and sector of employment: 2003

Field	Total	Universities and 4-year colleges	Other educational institutions	Private for-profit	Private not-for-profit	Federal government	State and local government	Self-employed	Other
					Number				
All fields	593,300	259,380	20,170	187,570	29,650	41,090	15,970	36,130	3,340
Science	468,570	217,940	18,460	126,220	25,180	32,550	13,970	31,460	2,780
Biological, agricultural, and environmental life sciences	145,760	76,040	4,720	37,630	7,210	12,830	2,950	4,100	290
Agricultural/food sciences	16,890	7,580	470	5,770	500	1,620	240	650	60
Biochemistry/biophysics	22,850	11,410	490	7,180	1,180	1,520	400	630	S
Cell/molecular biology	15,180	8,540	440	4,160	950	730	140	220	S
Environmental life sciences	5,620	2,180	140	970	340	1,280	460	230	S
Microbiology	10,970	5,100	500	3,560	430	810	180	350	S
Zoology	12,070	6,340	440	2,410	470	1,510	410	480	S
Other biological sciences	62,190	34,900	2,230	13,580	3,340	5,350	1,110	1,530	140
Computer and information sciences	11,960	5,280	190	5,540	260	310	90	280	S
Mathematics and statistics	28,330	16,630	700	7,570	780	1,420	350	800	60
Physical sciences	112,670	39,320	3,880	49,290	4,020	9,470	2,320	3,700	660
Astronomy/astrophysics	3,820	2,290	110	670	240	380	50	50	S
Chemistry, except biochemistry	57,040	15,920	2,250	31,190	1,640	2,650	1,100	2,130	150
Earth/atmospheric/ocean sciences	17,050	8,240	580	3,690	510	2,650	680	630	70
Physics	34,760	12,860	950	13,740	1,620	3,800	490	890	420
Psychology	91,410	31,680	6,270	16,400	8,540	3,280	5,340	19,580	320
Social sciences	78,450	48,980	2,700	9,790	4,370	5,240	2,920	3,000	1,450
Economics	22,060	12,160	260	3,570	870	2,680	450	850	1,220
Political sciences	17,730	11,620	610	2,020	870	810	930	770	90
Sociology	14,250	10,070	560	930	1,180	540	440	490	S
Other social sciences	24,410	15,120	1,270	3,270	1,440	1,210	1,100	890	110
Engineering	101,500	28,170	1,140	56,780	2,880	7,020	1,500	3,570	430
Aerospace/aeronautical/astronautical engineering	4,150	1,200	S	1,800	210	680	70	200	S
Chemical engineering	13,460	2,280	200	9,290	440	550	140	510	50
Civil engineering	9,170	3,580	120	3,830	190	590	430	300	130
Electrical/computer engineering	28,480	7,940	180	16,990	810	1,290	150	1,080	S
Materials/metallurgical engineering	10,820	1,680	150	7,150	290	1,030	S	420	80
Mechanical engineering	13,920	3,630	140	8,610	290	770	S	450	S
Other engineering	21,480	7,870	340	9,110	660	2,120	660	630	100
Health	23,230	13,280	570	4,570	1,590	1,520	490	1,100	130
					Percent				
All fields	100.0	43.7	3.4	31.6	5.0	6.9	2.7	6.1	0.6
Science	100.0	46.5	3.9	26.9	5.4	6.9	3.0	6.7	0.6
Biological, agricultural, and environmental life sciences	100.0	52.2	3.2	25.8	4.9	8.8	2.0	2.8	0.2
Agricultural/food sciences	100.0	44.9	2.8	34.2	3.0	9.6	1.4	3.8	0.3

TABLE 13. Employed doctoral scientists and engineers, by field of doctorate and sector of employment: 2003

Field	Total	Universities and 4-year colleges	Other educational institutions	Private for-profit	Private not-for-profit	Federal government	State and local government	Self-employed	Other
Physical sciences	100.0	34.9	3.4	43.7	3.6	8.4	2.1	3.3	0.6
Astronomy/astrophysics	100.0	60.1	2.9	17.5	6.3	9.9	1.4	1.4	S
Chemistry, except biochemistry	100.0	27.9	3.9	54.7	2.9	4.6	1.9	3.7	0.3
Earth/atmospheric/ocean sciences	100.0	48.4	3.4	21.7	3.0	15.5	4.0	3.7	0.4
Physics	100.0	37.0	2.7	39.5	4.7	10.9	1.4	2.6	1.2
Psychology	100.0	34.7	6.9	17.9	9.3	3.6	5.8	21.4	0.4
Social sciences	100.0	62.4	3.4	12.5	5.6	6.7	3.7	3.8	1.9
Economics	100.0	55.1	1.2	16.2	4.0	12.1	2.0	3.9	5.5
Political sciences	100.0	65.6	3.5	11.4	4.9	4.6	5.3	4.3	0.5
Sociology	100.0	70.7	3.9	6.5	8.3	3.8	3.1	3.4	S
Other social sciences	100.0	61.9	5.2	13.4	5.9	5.0	4.5	3.6	0.4
Engineering	100.0	27.8	1.1	55.9	2.8	6.9	1.5	3.5	0.4
Aerospace/aeronautical/astronautical engineering	100.0	28.8	S	43.4	5.1	16.3	1.6	4.7	S
Chemical engineering	100.0	17.0	1.4	69.0	3.3	4.1	1.1	3.8	0.4
Civil engineering	100.0	39.0	1.3	41.8	2.1	6.5	4.7	3.3	1.4
Electrical/computer engineering	100.0	27.9	0.6	59.6	2.8	4.5	0.5	3.8	S
Materials/metallurgical engineering	100.0	15.5	1.4	66.1	2.6	9.5	S	3.8	0.8
Mechanical engineering	100.0	26.0	1.0	61.8	2.1	5.5	S	3.2	S
Other engineering	100.0	36.7	1.6	42.4	3.1	9.9	3.1	2.9	0.5
Health	100.0	57.2	2.4	19.7	6.8	6.5	2.1	4.7	0.6

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 14. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2003

Employment sector and field	Total	Male	Female	Total	Male	Female
	Number			Percent		
All sectors	593,300	432,150	161,150	100.0	72.8	27.2
Science	468,570	329,810	138,760	100.0	70.4	29.6
Biological, agricultural, and environmental life sciences	145,760	101,180	44,580	100.0	69.4	30.6
Computer and information sciences	11,960	10,120	1,840	100.0	84.6	15.4
Mathematics and statistics	28,330	23,770	4,560	100.0	83.9	16.1
Physical sciences	112,670	95,780	16,890	100.0	85.0	15.0
Psychology	91,410	46,030	45,380	100.0	50.4	49.6
Social sciences	78,450	52,940	25,510	100.0	67.5	32.5
Engineering	101,500	92,690	8,820	100.0	91.3	8.7
Health	23,230	9,660	13,570	100.0	41.6	58.4
Universities and 4-year colleges	259,380	182,090	77,290	100.0	70.2	29.8
Science	217,940	151,990	65,950	100.0	69.7	30.3
Biological, agricultural, and environmental life sciences	76,040	51,660	24,380	100.0	67.9	32.1
Computer and information sciences	5,280	4,320	970	100.0	81.7	18.3
Mathematics and statistics	16,630	13,790	2,850	100.0	82.9	17.1
Physical sciences	39,320	33,500	5,820	100.0	85.2	14.8
Psychology	31,680	15,830	15,850	100.0	50.0	50.0
Social sciences	48,980	32,890	16,090	100.0	67.2	32.8
Engineering	28,170	25,260	2,910	100.0	89.7	10.3
Health	13,280	4,840	8,430	100.0	36.5	63.5
Other educational institutions	20,170	11,780	8,390	100.0	58.4	41.6
Science	18,460	10,740	7,720	100.0	58.2	41.8
Biological, agricultural, and environmental life sciences	4,720	2,690	2,030	100.0	57.0	43.0
Computer and information sciences	190	150	S	100.0	75.5	S
Mathematics and statistics	700	570	130	100.0	81.7	18.3
Physical sciences	3,880	3,030	850	100.0	78.0	22.0
Psychology	6,270	2,690	3,580	100.0	42.9	57.1
Social sciences	2,700	1,620	1,080	100.0	59.9	40.1
Engineering	1,140	910	230	100.0	80.0	20.0
Health	570	120	440	100.0	21.9	78.1
Private for-profit	187,570	153,260	34,310	100.0	81.7	18.3
Science	126,220	98,000	28,220	100.0	77.6	22.4
Biological, agricultural, and environmental life sciences	37,630	27,760	9,870	100.0	73.8	26.2
Computer and information sciences	5,540	4,880	660	100.0	88.1	11.9
Mathematics and statistics	7,570	6,550	1,030	100.0	86.5	13.5
Physical sciences	49,290	42,140	7,150	100.0	85.5	14.5
Psychology	16,400	9,470	6,930	100.0	57.7	42.3
Social sciences	9,790	7,200	2,580	100.0	73.6	26.4
Engineering	56,780	52,420	4,360	100.0	92.3	7.7
Health	4,570	2,840	1,720	100.0	62.3	37.7
Private not-for-profit	29,650	18,800	10,850	100.0	63.4	36.6
Science	25,180	15,610	9,580	100.0	62.0	38.0
Biological, agricultural, and environmental life sciences	7,210	4,700	2,510	100.0	65.2	34.8
Computer and information sciences	260	190	70	100.0	72.0	28.0
Mathematics and statistics	780	600	180	100.0	76.9	23.1
Physical sciences	4,020	3,390	630	100.0	84.3	15.7
Psychology	8,540	4,380	4,160	100.0	51.3	48.7
Social sciences	4,370	2,350	2,020	100.0	53.7	46.3
Engineering	2,880	2,670	210	100.0	92.8	7.2
Health	1,590	520	1,060	100.0	32.9	67.1
Federal government	41,090	31,380	9,720	100.0	76.4	23.6
Science	32,550	24,380	8,180	100.0	74.9	25.1
Biological, agricultural, and environmental life sciences	12,830	9,060	3,770	100.0	70.6	29.4
Computer and information sciences	310	270	S	100.0	86.4	S
Mathematics and statistics	1,420	1,260	160	100.0	88.6	11.4

TABLE 14. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2003

Employment sector and field	Total	Male	Female	Total	Male	Female
	Number			Percent		
Physical sciences	9,470	8,130	1,340	100.0	85.8	14.2
Psychology	3,280	1,990	1,280	100.0	60.8	39.2
Social sciences	5,240	3,660	1,580	100.0	69.9	30.1
Engineering	7,020	6,370	660	100.0	90.6	9.4
Health	1,520	630	880	100.0	41.7	58.3
State and local government	15,970	11,090	4,880	100.0	69.5	30.5
Science	13,970	9,630	4,340	100.0	68.9	31.1
Biological, agricultural, and environmental life sciences	2,950	2,120	830	100.0	71.9	28.1
Computer and information sciences	90	80	S	100.0	83.1	S
Mathematics and statistics	350	290	50	100.0	84.6	15.4
Physical sciences	2,320	1,940	380	100.0	83.5	16.5
Psychology	5,340	3,170	2,170	100.0	59.3	40.7
Social sciences	2,920	2,030	890	100.0	69.6	30.4
Engineering	1,500	1,290	210	100.0	86.1	13.9
Health	490	170	330	100.0	34.2	65.8
Self-employed	36,130	21,310	14,820	100.0	59.0	41.0
Science	31,460	17,460	14,000	100.0	55.5	44.5
Biological, agricultural, and environmental life sciences	4,100	2,990	1,110	100.0	72.9	27.1
Computer and information sciences	280	240	S	100.0	86.7	S
Mathematics and statistics	800	650	160	100.0	80.2	19.8
Physical sciences	3,700	3,110	600	100.0	83.9	16.1
Psychology	19,580	8,380	11,200	100.0	42.8	57.2
Social sciences	3,000	2,100	900	100.0	70.1	29.9
Engineering	3,570	3,400	180	100.0	95.1	4.9
Health	1,100	450	640	100.0	41.4	58.6
Other sector	3,340	2,440	900	100.0	73.0	27.0
Science	2,780	2,010	780	100.0	72.0	28.0
Biological, agricultural, and environmental life sciences	290	210	80	100.0	72.0	28.0
Computer and information sciences	S	S	S	S	S	S
Mathematics and statistics	60	60	S	100.0	95.6	S
Physical sciences	660	550	110	100.0	82.9	17.1
Psychology	320	110	210	100.0	33.7	66.3
Social sciences	1,450	1,080	370	100.0	74.5	25.5
Engineering	430	370	60	100.0	85.4	14.6
Health	130	70	60	100.0	53.4	46.6

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 15. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2003 (corrected January 2011)

Employment sector and field	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
	Number						
All sectors	593,300	970	95,000	15,860	16,220	457,870	7,380
Science	468,570	910	59,550	12,820	13,250	376,180	5,870
Biological, agricultural, and environmental life sciences	145,760	250	21,840	3,170	4,160	114,500	1,830
Computer and information sciences	11,960	S	3,740	250	260	7,500	200
Mathematics and statistics	28,330	S	5,690	580	630	21,190	230
Physical sciences	112,670	190	19,360	1,660	2,480	87,640	1,350
Psychology	91,410	180	2,250	3,510	3,270	81,000	1,200
Social sciences	78,450	260	6,680	3,650	2,450	64,340	1,060
Engineering	101,500	S	32,880	1,920	2,390	63,120	1,160
Health	23,230	S	2,570	1,120	580	18,570	340
Universities and 4-year colleges	259,380	460	32,840	8,790	8,720	205,210	3,370
Science	217,940	430	25,540	7,180	7,250	174,690	2,830
Biological, agricultural, and environmental life sciences	76,040	150	11,390	1,740	2,530	59,340	880
Computer and information sciences	5,280	S	1,430	180	150	3,450	70
Mathematics and statistics	16,630	S	2,610	390	440	13,010	190
Physical sciences	39,320	60	5,070	740	1,120	31,750	580
Psychology	31,680	80	1,010	1,630	1,330	27,190	440
Social sciences	48,980	140	4,030	2,510	1,680	39,950	670
Engineering	28,170	S	6,170	890	1,060	19,710	330
Health	13,280	S	1,130	720	400	10,800	200
Other educational institutions	20,170	60	1,540	1,110	680	16,590	200
Science	18,460	60	1,300	1,070	620	15,220	190
Biological, agricultural, and environmental life sciences	4,720	S	420	200	110	3,960	S
Computer and information sciences	190	S	50	S	S	110	S
Mathematics and statistics	700	S	260	S	S	430	S
Physical sciences	3,880	S	270	150	110	3,300	S
Psychology	6,270	S	200	470	300	5,240	60
Social sciences	2,700	S	100	210	90	2,190	70
Engineering	1,140	S	220	S	S	890	S
Health	570	S	S	S	S	490	S
Private-for-profit	187,570	230	48,430	3,000	3,720	130,120	2,060
Science	126,220	200	23,970	2,060	2,660	95,990	1,350
Biological, agricultural, and environmental life sciences	37,630	S	6,470	680	970	29,020	470
Computer and information sciences	5,540	S	2,130	S	100	3,160	110
Mathematics and statistics	7,570	S	2,220	80	130	5,140	S
Physical sciences	49,290	70	11,610	590	750	35,820	450
Psychology	16,400	S	350	470	510	14,850	190
Social sciences	9,790	S	1,190	230	200	8,000	120
Engineering	56,780	S	23,530	750	1,000	30,820	650
Health	4,570	S	930	180	70	3,310	60
Private not-for-profit	29,650	S	3,330	690	600	24,460	530
Science	25,180	S	2,340	560	560	21,200	490
Biological, agricultural, and environmental life sciences	7,210	S	1,130	130	70	5,720	160
Computer and information sciences	260	S	S	S	S	180	S
Mathematics and statistics	780	S	S	S	S	740	S
Physical sciences	4,020	S	460	S	S	3,410	100
Psychology	8,540	S	270	250	300	7,550	130
Social sciences	4,370	S	390	150	140	3,600	90

TABLE 15. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2003 (corrected January 2011)

Employment sector and field	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Engineering	2,880	S	780	S	S	2,050	S
Health	1,590	S	210	110	S	1,210	S
Federal government	41,090	S	4,720	1,130	890	33,740	560
Science	32,550	S	3,440	970	740	26,960	390
Biological, agricultural, and environmental life sciences	12,830	S	1,630	270	290	10,450	190
Computer and information sciences	310	S	S	S	S	290	S
Mathematics and statistics	1,420	S	270	70	S	1,060	S
Physical sciences	9,470	S	1,130	140	240	7,850	100
Psychology	3,280	S	50	190	120	2,820	60
Social sciences	5,240	S	350	300	70	4,500	S
Engineering	7,020	S	1,120	120	110	5,530	140
Health	1,520	S	160	S	S	1,250	S
State and local government	15,970	S	1,870	600	540	12,660	250
Science	13,970	S	1,290	540	510	11,330	240
Biological, agricultural, and environmental life sciences	2,950	S	310	90	60	2,430	S
Computer and information sciences	90	S	S	S	S	50	S
Mathematics and statistics	350	S	150	S	S	130	S
Physical sciences	2,320	S	310	S	130	1,830	S
Psychology	5,340	S	210	250	220	4,550	100
Social sciences	2,920	S	270	160	100	2,330	S
Engineering	1,500	S	500	S	S	940	S
Health	490	S	70	S	S	390	S
Self-employed	36,130	90	1,670	490	840	32,650	400
Science	31,460	80	1,170	390	760	28,700	370
Biological, agricultural, and environmental life sciences	4,100	S	440	S	120	3,400	60
Computer and information sciences	280	S	S	S	S	250	S
Mathematics and statistics	800	S	90	S	S	690	S
Physical sciences	3,700	S	400	S	90	3,130	S
Psychology	19,580	S	150	250	470	18,480	220
Social sciences	3,000	S	70	90	S	2,740	S
Engineering	3,570	S	450	60	70	2,970	S
Health	1,100	S	S	S	S	990	S
Other sector	3,340	S	600	60	220	2,430	S
Science	2,780	S	490	S	140	2,090	S
Biological, agricultural, and environmental life sciences	290	S	S	S	S	190	S
Computer and information sciences	S	S	S	S	S	S	S
Mathematics and statistics	60	S	60	S	S	S	S
Physical sciences	660	S	120	S	S	540	S
Psychology	320	S	S	S	S	310	S
Social sciences	1,450	S	270	S	120	1,040	S
Engineering	430	S	110	S	80	220	S
Health	130	S	S	S	S	130	S
				Percent			
All sectors	100.0	0.2	16.0	2.7	2.7	77.2	1.2
Science	100.0	0.2	12.7	2.7	2.8	80.3	1.3
Biological, agricultural, and environmental life sciences	100.0	0.2	15.0	2.2	2.9	78.6	1.3
Computer and information sciences	100.0	S	31.3	2.1	2.2	62.7	1.6
Mathematics and statistics	100.0	S	20.1	2.1	2.2	74.8	0.8
Physical sciences	100.0	0.2	17.2	1.5	2.2	77.8	1.2

TABLE 15. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2003 (corrected January 2011)

Employment sector and field	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Psychology	100.0	0.2	2.5	3.8	3.6	88.6	1.3
Social sciences	100.0	0.3	8.5	4.7	3.1	82.0	1.4
Engineering	100.0	S	32.4	1.9	2.3	62.2	1.1
Health	100.0	S	11.1	4.8	2.5	80.0	1.5
Universities and 4-year colleges	100.0	0.2	12.7	3.4	3.4	79.1	1.3
Science	100.0	0.2	11.7	3.3	3.3	80.2	1.3
Biological, agricultural, and environmental life sciences	100.0	0.2	15.0	2.3	3.3	78.0	1.2
Computer and information sciences	100.0	S	27.0	3.5	2.8	65.4	1.3
Mathematics and statistics	100.0	S	15.7	2.3	2.6	78.2	1.1
Physical sciences	100.0	0.2	12.9	1.9	2.9	80.8	1.5
Psychology	100.0	0.3	3.2	5.1	4.2	85.8	1.4
Social sciences	100.0	0.3	8.2	5.1	3.4	81.6	1.4
Engineering	100.0	S	21.9	3.2	3.8	70.0	1.2
Health	100.0	S	8.5	5.4	3.0	81.4	1.5
Other educational institutions	100.0	0.3	7.6	5.5	3.4	82.3	1.0
Science	100.0	0.3	7.0	5.8	3.4	82.4	1.0
Biological, agricultural, and environmental life sciences	100.0	S	8.9	4.3	2.3	83.8	S
Computer and information sciences	100.0	S	26.5	S	S	54.8	S
Mathematics and statistics	100.0	S	36.8	S	S	61.3	S
Physical sciences	100.0	S	6.9	3.9	2.8	84.9	S
Psychology	100.0	S	3.2	7.5	4.8	83.5	1.0
Social sciences	100.0	S	3.9	7.7	3.5	81.2	2.6
Engineering	100.0	S	18.9	S	S	78.0	S
Health	100.0	S	S	S	S	85.7	S
Private-for-profit	100.0	0.1	25.8	1.6	2.0	69.4	1.1
Science	100.0	0.2	19.0	1.6	2.1	76.0	1.1
Biological, agricultural, and environmental life sciences	100.0	S	17.2	1.8	2.6	77.1	1.3
Computer and information sciences	100.0	S	38.4	S	1.8	57.0	2.0
Mathematics and statistics	100.0	S	29.4	1.0	1.8	67.8	S
Physical sciences	100.0	0.1	23.6	1.2	1.5	72.7	0.9
Psychology	100.0	S	2.1	2.9	3.1	90.6	1.2
Social sciences	100.0	S	12.1	2.3	2.0	81.7	1.3
Engineering	100.0	S	41.4	1.3	1.8	54.3	1.1
Health	100.0	S	20.5	4.0	1.5	72.6	1.4
Private not-for-profit	100.0	S	11.2	2.3	2.0	82.5	1.8
Science	100.0	S	9.3	2.2	2.2	84.2	1.9
Biological, agricultural, and environmental life sciences	100.0	S	15.7	1.8	0.9	79.3	2.2
Computer and information sciences	100.0	S	S	S	S	70.9	S
Mathematics and statistics	100.0	S	S	S	S	94.1	S
Physical sciences	100.0	S	11.5	S	S	84.9	2.5
Psychology	100.0	S	3.2	3.0	3.6	88.5	1.5
Social sciences	100.0	S	8.9	3.4	3.3	82.3	2.1
Engineering	100.0	S	27.0	S	S	71.3	S
Health	100.0	S	13.6	6.9	S	76.2	S
Federal government	100.0	S	11.5	2.8	2.2	82.1	1.4
Science	100.0	S	10.6	3.0	2.3	82.8	1.2
Biological, agricultural, and environmental life sciences	100.0	S	12.7	2.1	2.2	81.4	1.5
Computer and information sciences	100.0	S	S	S	S	92.1	S
Mathematics and statistics	100.0	S	18.9	4.8	S	74.2	S

TABLE 15. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2003 (corrected January 2011)

Employment sector and field	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Physical sciences	100.0	S	11.9	1.5	2.6	82.9	1.1
Psychology	100.0	S	1.6	5.7	3.7	86.0	1.9
Social sciences	100.0	S	6.6	5.7	1.4	85.9	S
Engineering	100.0	S	16.0	1.7	1.5	78.7	2.0
Health	100.0	S	10.4	S	S	82.8	S
State and local government	100.0	S	11.7	3.7	3.4	79.3	1.6
Science	100.0	S	9.3	3.9	3.7	81.1	1.7
Biological, agricultural, and environmental life sciences	100.0	S	10.6	3.1	2.1	82.5	S
Computer and information sciences	100.0	S	S	S	S	59.5	S
Mathematics and statistics	100.0	S	43.9	S	S	38.7	S
Physical sciences	100.0	S	13.2	S	5.7	78.9	S
Psychology	100.0	S	4.0	4.8	4.2	85.2	1.8
Social sciences	100.0	S	9.3	5.5	3.3	79.7	S
Engineering	100.0	S	33.4	S	S	62.4	S
Health	100.0	S	14.5	S	S	79.6	S
Self-employed	100.0	0.2	4.6	1.3	2.3	90.4	1.1
Science	100.0	0.3	3.7	1.2	2.4	91.2	1.2
Biological, agricultural, and environmental life sciences	100.0	S	10.7	S	3.0	83.0	1.5
Computer and information sciences	100.0	S	S	S	S	90.7	S
Mathematics and statistics	100.0	S	11.2	S	S	85.6	S
Physical sciences	100.0	S	10.8	S	2.5	84.4	S
Psychology	100.0	S	0.7	1.3	2.4	94.4	1.1
Social sciences	100.0	S	2.4	3.1	S	91.5	S
Engineering	100.0	S	12.5	1.8	2.0	83.1	S
Health	100.0	S	S	S	S	89.9	S
Other sector	100.0	S	18.0	1.7	6.7	72.7	S
Science	100.0	S	17.7	S	5.2	75.0	S
Biological, agricultural, and environmental life sciences	100.0	S	S	S	S	66.8	S
Computer and information sciences	S	S	S	S	S	S	S
Mathematics and statistics	100.0	S	95.6	S	S	S	S
Physical sciences	100.0	S	17.5	S	S	81.8	S
Psychology	100.0	S	S	S	S	98.1	S
Social sciences	100.0	S	18.6	S	8.4	71.7	S
Engineering	100.0	S	25.4	S	18.5	50.3	S
Health	100.0	S	S	S	S	100.0	S

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 16. Employed doctoral scientists and engineers, by field of doctorate and primary or secondary work activity: 2003

Field	Total	Research and development					Computer applications	Management, sales, administration	Professional services	Teaching	Other
		Any R&D	Applied research	Basic research	Design	Development					
		Number									
All fields	593,300	371,830	194,380	141,240	38,060	86,330	56,280	241,190	95,630	183,650	35,700
Science	468,570	283,660	145,260	127,470	20,410	52,050	38,380	191,540	85,750	154,230	28,020
Biological, agricultural, and environmental life sciences	145,760	99,330	49,890	54,510	3,060	15,150	6,300	65,730	20,220	40,730	8,880
Agricultural/food sciences	16,890	11,280	8,380	3,090	330	3,010	850	7,900	1,400	4,060	1,600
Biochemistry/biophysics	22,850	16,200	7,070	9,800	670	3,040	1,270	10,850	2,930	5,000	1,030
Cell/molecular biology	15,180	11,220	4,200	7,900	300	1,240	650	7,160	1,970	3,430	560
Environmental life sciences	5,620	3,820	3,180	690	210	450	220	2,820	380	1,430	540
Microbiology	10,970	7,150	3,680	3,810	330	1,380	310	4,980	1,980	2,600	680
Zoology	12,070	7,440	3,750	4,030	120	1,030	430	5,310	1,810	4,480	1,050
Other biological sciences	62,190	42,220	19,630	25,200	1,110	5,000	2,560	26,700	9,740	19,730	3,430
Computer and information sciences	11,960	8,630	4,640	2,510	1,320	1,960	4,220	3,330	230	3,960	320
Mathematics and statistics	28,330	18,120	7,390	8,340	2,160	2,730	6,280	7,680	1,320	14,470	1,370
Physical sciences	112,670	78,150	38,920	30,130	9,900	23,580	15,130	44,760	6,390	27,840	8,510
Astronomy/astrophysics	3,820	3,100	680	2,090	470	410	930	1,030	100	1,170	160
Chemistry, except biochemistry	57,040	38,050	21,820	11,960	2,990	14,580	3,620	26,570	3,900	12,770	5,070
Earth/atmospheric/ocean sciences	17,050	12,310	6,230	6,620	860	1,480	2,350	5,890	950	5,650	1,120
Physics	34,760	24,700	10,200	9,470	5,580	7,110	8,220	11,270	1,450	8,250	2,160
Psychology	91,410	32,190	18,820	11,300	2,240	4,320	2,960	39,580	48,860	26,140	3,940
Social sciences	78,450	47,230	25,610	20,680	1,730	4,310	3,490	30,460	8,730	41,100	5,000
Economics	22,060	14,810	10,580	4,640	740	1,230	1,370	8,280	2,650	9,720	1,170
Political sciences	17,730	9,320	4,010	4,970	180	740	570	7,070	1,640	9,980	1,490
Sociology	14,250	8,980	4,220	4,690	290	720	580	5,400	1,290	8,080	660
Other social sciences	24,410	14,110	6,800	6,370	520	1,630	960	9,700	3,150	13,310	1,680
Engineering	101,500	75,080	39,480	10,660	16,990	32,450	16,980	39,320	4,810	20,050	6,370
Aerospace/aeronautical/astronautical engineering	4,150	3,310	1,710	730	690	1,340	720	1,330	120	910	280
Chemical engineering	13,460	9,940	5,170	1,100	2,580	4,930	1,710	5,430	840	1,850	990
Civil engineering	9,170	6,250	3,480	870	1,650	1,350	1,220	3,910	770	2,930	430
Electrical/computer engineering	28,480	21,570	10,230	2,770	4,790	10,720	5,990	10,320	780	5,460	1,760
Materials/metallurgical engineering	10,820	8,060	4,440	960	1,430	4,750	750	4,730	490	1,260	1,020
Mechanical engineering	13,920	10,610	5,200	1,470	2,960	4,890	2,570	5,030	530	2,720	490
Other engineering	21,480	15,330	9,250	2,770	2,890	4,470	4,020	8,560	1,280	4,910	1,390
Health	23,230	13,100	9,640	3,110	660	1,830	910	10,330	5,060	9,370	1,310
		Percent									
All fields	593,300	62.7	32.8	23.8	6.4	14.6	9.5	40.7	16.1	31.0	6.0
Science	468,570	60.5	31.0	27.2	4.4	11.1	8.2	40.9	18.3	32.9	6.0

TABLE 16. Employed doctoral scientists and engineers, by field of doctorate and primary or secondary work activity: 2003

Field	Total	Research and development					Computer applications	Management, sales, administration	Professional services	Teaching	Other
		Any R&D	Applied research	Basic research	Design	Development					
Biological, agricultural, and environmental life sciences	145,760	68.1	34.2	37.4	2.1	10.4	4.3	45.1	13.9	27.9	6.1
Agricultural/food sciences	16,890	66.8	49.6	18.3	2.0	17.8	5.0	46.7	8.3	24.0	9.5
Biochemistry/biophysics	22,850	70.9	31.0	42.9	2.9	13.3	5.6	47.5	12.8	21.9	4.5
Cell/molecular biology	15,180	73.9	27.6	52.0	2.0	8.2	4.3	47.2	13.0	22.6	3.7
Environmental life sciences	5,620	68.1	56.6	12.2	3.7	8.1	3.9	50.2	6.7	25.5	9.6
Microbiology	10,970	65.2	33.6	34.7	3.0	12.6	2.9	45.4	18.1	23.7	6.2
Zoology	12,070	61.7	31.1	33.4	1.0	8.5	3.6	44.0	15.0	37.2	8.7
Other biological sciences	62,190	67.9	31.6	40.5	1.8	8.0	4.1	42.9	15.7	31.7	5.5
Computer and information sciences	11,960	72.1	38.8	21.0	11.0	16.4	35.3	27.8	1.9	33.1	2.6
Mathematics and statistics	28,330	64.0	26.1	29.4	7.6	9.6	22.2	27.1	4.7	51.1	4.8
Physical sciences	112,670	69.4	34.5	26.7	8.8	20.9	13.4	39.7	5.7	24.7	7.6
Astronomy/astrophysics	3,820	81.1	17.7	54.8	12.4	10.8	24.3	26.9	2.5	30.6	4.2
Chemistry, except biochemistry	57,040	66.7	38.3	21.0	5.3	25.6	6.4	46.6	6.8	22.4	8.9
Earth/atmospheric/ocean sciences	17,050	72.2	36.5	38.8	5.0	8.7	13.8	34.6	5.6	33.1	6.6
Physics	34,760	71.0	29.3	27.2	16.0	20.5	23.6	32.4	4.2	23.7	6.2
Psychology	91,410	35.2	20.6	12.4	2.5	4.7	3.2	43.3	53.5	28.6	4.3
Social sciences	78,450	60.2	32.6	26.4	2.2	5.5	4.4	38.8	11.1	52.4	6.4
Economics	22,060	67.1	48.0	21.1	3.3	5.6	6.2	37.5	12.0	44.1	5.3
Political sciences	17,730	52.6	22.6	28.0	1.0	4.2	3.2	39.9	9.2	56.3	8.4
Sociology	14,250	63.1	29.6	32.9	2.0	5.0	4.1	37.9	9.1	56.7	4.7
Other social sciences	24,410	57.8	27.8	26.1	2.1	6.7	4.0	39.8	12.9	54.5	6.9
Engineering	101,500	74.0	38.9	10.5	16.7	32.0	16.7	38.7	4.7	19.8	6.3
Aerospace/aeronautical/astronautical engineering	4,150	79.7	41.1	17.5	16.6	32.3	17.3	32.1	3.0	21.9	6.8
Chemical engineering	13,460	73.8	38.4	8.1	19.1	36.6	12.7	40.4	6.2	13.7	7.4
Civil engineering	9,170	68.2	37.9	9.4	18.0	14.8	13.3	42.7	8.5	32.0	4.7
Electrical/computer engineering	28,480	75.7	35.9	9.7	16.8	37.6	21.0	36.2	2.7	19.2	6.2
Materials/metallurgical engineering	10,820	74.5	41.1	8.8	13.3	43.9	7.0	43.7	4.5	11.7	9.4
Mechanical engineering	13,920	76.2	37.4	10.5	21.2	35.1	18.4	36.1	3.8	19.6	3.5
Other engineering	21,480	71.4	43.1	12.9	13.4	20.8	18.7	39.9	5.9	22.8	6.5
Health	23,230	56.4	41.5	13.4	2.8	7.9	3.9	44.5	21.8	40.3	5.6

NOTES: Numbers are rounded to nearest 10. Detail may exceed total due to multiple responses.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 17. Employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2003

Employer location	Total	Science							Engineering	Health
		All sciences	Biological, agricultural, and environmental life sciences	Computer and information sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences		
	Number									
All locations	593,300	468,570	145,760	11,960	28,330	112,670	91,410	78,450	101,500	23,230
New England	49,670	39,820	12,970	850	2,360	9,400	7,860	6,370	7,850	2,000
Connecticut	9,800	8,070	2,440	90	270	2,140	2,040	1,100	1,370	360
Maine	2,110	1,870	580	S	100	390	450	340	180	60
Massachusetts	30,180	24,260	8,810	540	1,540	5,570	4,170	3,630	4,700	1,220
New Hampshire	2,640	1,790	320	100	250	500	310	310	740	110
Rhode Island	3,170	2,480	360	120	200	620	580	600	560	140
Vermont	1,770	1,360	450	S	S	180	310	410	290	120
Middle Atlantic	93,580	76,330	20,360	2,310	5,190	18,880	16,610	12,970	13,540	3,720
New Jersey	20,980	16,650	4,320	760	1,340	5,540	2,460	2,240	3,500	830
New York	44,730	37,410	9,640	1,170	2,550	7,490	9,690	6,850	5,720	1,610
Pennsylvania	27,880	22,270	6,410	380	1,300	5,850	4,450	3,880	4,320	1,290
East North Central	78,370	60,330	17,640	1,200	3,860	14,060	12,580	10,970	14,950	3,100
Illinois	22,400	17,910	5,140	530	1,010	4,190	3,260	3,780	3,640	840
Indiana	9,590	7,580	2,000	100	670	1,650	1,680	1,480	1,490	530
Michigan	17,110	12,330	3,360	220	1,040	2,940	2,820	1,960	4,320	460
Ohio	20,870	15,620	4,770	270	750	3,900	3,410	2,520	4,260	990
Wisconsin	8,390	6,890	2,380	90	390	1,380	1,420	1,230	1,230	280
West North Central	33,880	27,850	11,320	400	1,370	4,670	5,390	4,700	4,360	1,670
Iowa	4,660	3,980	1,530	110	390	560	490	880	470	210
Kansas	4,030	3,200	1,120	80	110	410	850	630	650	190
Minnesota	11,160	8,900	3,440	70	260	1,870	1,980	1,280	1,460	800
Missouri	9,060	7,520	3,260	110	410	1,250	1,380	1,110	1,250	290
Nebraska	1,130	910	530	S	S	150	120	90	160	60
North Dakota	2,820	2,480	1,080	S	100	360	420	520	280	60
South Dakota	1,020	860	360	S	80	80	150	180	90	60
South Atlantic	113,590	92,760	29,620	1,760	6,120	20,060	16,190	19,000	15,590	5,240
Delaware	3,000	2,100	770	S	80	830	220	170	740	160
District of Columbia	13,770	12,060	1,940	120	580	1,750	1,320	6,340	1,220	490
Florida	15,970	12,400	3,890	320	750	2,070	3,150	2,220	2,780	790
Georgia	12,190	10,030	3,260	150	530	2,220	1,890	1,980	1,420	730
Maryland	25,280	20,690	8,900	380	1,380	4,790	2,810	2,440	3,230	1,360
North Carolina	17,420	14,510	5,880	180	920	3,140	2,730	1,670	2,000	900
South Carolina	5,180	4,220	1,230	50	280	1,020	790	840	730	240
Virginia	18,800	15,210	3,270	540	1,540	3,830	3,050	2,980	3,130	460
West Virginia	1,980	1,540	480	S	60	400	240	350	330	110
East South Central	22,450	17,310	6,220	290	1,190	3,690	3,310	2,610	3,910	1,240
Alabama	5,750	3,990	1,590	120	340	810	650	480	1,250	510
Kentucky	4,730	4,070	1,470	50	450	400	910	790	420	240
Mississippi	3,120	2,360	1,090	70	80	500	240	380	610	150
Tennessee	8,860	6,890	2,080	60	320	1,980	1,500	950	1,630	340
West South Central	46,020	34,440	11,490	1,050	1,940	8,620	6,270	5,070	9,380	2,200
Arkansas	2,760	2,310	970	S	S	480	320	460	280	160
Louisiana	5,420	4,400	1,700	100	290	800	850	670	640	380
Oklahoma	4,660	3,650	1,050	150	60	820	960	620	780	230
Texas	33,180	24,070	7,760	780	1,550	6,530	4,140	3,330	7,680	1,420
Mountain	39,140	30,140	8,730	670	1,600	9,030	5,550	4,560	7,780	1,220
Arizona	7,590	5,780	1,540	80	220	1,500	1,320	1,130	1,560	240
Colorado	12,200	9,880	2,690	240	520	3,080	1,970	1,370	1,910	410

TABLE 17. Employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2003

Employer location	Total	Science							Engineering	Health
		All sciences	Biological, agricultural, and environmental life sciences	Computer and information sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences		
Idaho	2,450	1,920	820	S	90	430	370	180	440	100
Montana	1,800	1,580	580	S	220	270	330	160	160	60
New Mexico	8,140	5,480	1,080	120	260	2,710	600	710	2,440	220
Nevada	2,070	1,640	630	50	130	340	320	170	380	S
Utah	4,240	3,270	1,150	80	120	530	620	770	820	140
Wyoming	650	580	240	S	60	160	S	80	60	S
Pacific	113,980	87,440	26,570	3,410	4,590	23,940	17,140	11,790	23,800	2,740
Alaska	1,140	1,030	380	S	S	320	70	220	100	S
California	86,570	65,300	18,560	2,740	3,640	18,760	13,440	8,150	19,390	1,880
Hawaii	3,040	2,740	1,050	S	110	600	320	630	210	100
Oregon	7,780	6,070	2,260	270	270	1,390	1,000	880	1,450	250
Washington	15,450	12,300	4,320	330	580	2,870	2,300	1,900	2,650	500
Puerto Rico	1,810	1,560	610	S	70	240	440	200	210	S
Other U.S. territories and other areas	790	600	230	S	S	70	70	210	140	50
					Percent					
All locations	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New England	8.4	8.5	8.9	7.1	8.3	8.3	8.6	8.1	7.7	8.6
Connecticut	1.7	1.7	1.7	0.7	0.9	1.9	2.2	1.4	1.4	1.5
Maine	0.4	0.4	0.4	S	0.4	0.4	0.5	0.4	0.2	0.2
Massachusetts	5.1	5.2	6.0	4.5	5.4	4.9	4.6	4.6	4.6	5.2
New Hampshire	0.4	0.4	0.2	0.9	0.9	0.4	0.3	0.4	0.7	0.5
Rhode Island	0.5	0.5	0.2	1.0	0.7	0.6	0.6	0.8	0.6	0.6
Vermont	0.3	0.3	0.3	S	S	0.2	0.3	0.5	0.3	0.5
Middle Atlantic	15.8	16.3	14.0	19.3	18.3	16.8	18.2	16.5	13.3	16.0
New Jersey	3.5	3.6	3.0	6.3	4.7	4.9	2.7	2.9	3.4	3.6
New York	7.5	8.0	6.6	9.8	9.0	6.7	10.6	8.7	5.6	6.9
Pennsylvania	4.7	4.8	4.4	3.2	4.6	5.2	4.9	4.9	4.3	5.5
East North Central	13.2	12.9	12.1	10.1	13.6	12.5	13.8	14.0	14.7	13.3
Illinois	3.8	3.8	3.5	4.4	3.6	3.7	3.6	4.8	3.6	3.6
Indiana	1.6	1.6	1.4	0.8	2.4	1.5	1.8	1.9	1.5	2.3
Michigan	2.9	2.6	2.3	1.8	3.7	2.6	3.1	2.5	4.3	2.0
Ohio	3.5	3.3	3.3	2.3	2.6	3.5	3.7	3.2	4.2	4.3
Wisconsin	1.4	1.5	1.6	0.8	1.4	1.2	1.6	1.6	1.2	1.2
West North Central	5.7	5.9	7.8	3.3	4.8	4.1	5.9	6.0	4.3	7.2
Iowa	0.8	0.8	1.1	1.0	1.4	0.5	0.5	1.1	0.5	0.9
Kansas	0.7	0.7	0.8	0.7	0.4	0.4	0.9	0.8	0.6	0.8
Minnesota	1.9	1.9	2.4	0.6	0.9	1.7	2.2	1.6	1.4	3.4
Missouri	1.5	1.6	2.2	0.9	1.4	1.1	1.5	1.4	1.2	1.3
Nebraska	0.2	0.2	0.4	S	S	0.1	0.1	0.1	0.2	0.3
North Dakota	0.5	0.5	0.7	S	0.4	0.3	0.5	0.7	0.3	0.3
South Dakota	0.2	0.2	0.2	S	0.3	0.1	0.2	0.2	0.1	0.3
South Atlantic	19.1	19.8	20.3	14.7	21.6	17.8	17.7	24.2	15.4	22.6
Delaware	0.5	0.4	0.5	S	0.3	0.7	0.2	0.2	0.7	0.7
District of Columbia	2.3	2.6	1.3	1.0	2.0	1.6	1.4	8.1	1.2	2.1
Florida	2.7	2.6	2.7	2.7	2.6	1.8	3.4	2.8	2.7	3.4
Georgia	2.1	2.1	2.2	1.2	1.9	2.0	2.1	2.5	1.4	3.2
Maryland	4.3	4.4	6.1	3.2	4.9	4.3	3.1	3.1	3.2	5.9
North Carolina	2.9	3.1	4.0	1.5	3.2	2.8	3.0	2.1	2.0	3.9
South Carolina	0.9	0.9	0.8	0.5	1.0	0.9	0.9	1.1	0.7	1.0

TABLE 17. Employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2003

Employer location	Total	Science							Engineering	Health
		All sciences	Biological, agricultural, and environmental life sciences	Computer and information sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences		
Virginia	3.2	3.2	2.2	4.5	5.4	3.4	3.3	3.8	3.1	2.0
West Virginia	0.3	0.3	0.3	S	0.2	0.4	0.3	0.4	0.3	0.5
East South Central	3.8	3.7	4.3	2.5	4.2	3.3	3.6	3.3	3.8	5.3
Alabama	1.0	0.9	1.1	1.0	1.2	0.7	0.7	0.6	1.2	2.2
Kentucky	0.8	0.9	1.0	0.4	1.6	0.4	1.0	1.0	0.4	1.0
Mississippi	0.5	0.5	0.7	0.5	0.3	0.4	0.3	0.5	0.6	0.6
Tennessee	1.5	1.5	1.4	0.5	1.1	1.8	1.6	1.2	1.6	1.5
West South Central	7.8	7.3	7.9	8.8	6.8	7.7	6.9	6.5	9.2	9.5
Arkansas	0.5	0.5	0.7	S	S	0.4	0.4	0.6	0.3	0.7
Louisiana	0.9	0.9	1.2	0.8	1.0	0.7	0.9	0.9	0.6	1.6
Oklahoma	0.8	0.8	0.7	1.2	0.2	0.7	1.1	0.8	0.8	1.0
Texas	5.6	5.1	5.3	6.5	5.5	5.8	4.5	4.2	7.6	6.1
Mountain	6.6	6.4	6.0	5.6	5.7	8.0	6.1	5.8	7.7	5.3
Arizona	1.3	1.2	1.1	0.7	0.8	1.3	1.4	1.4	1.5	1.0
Colorado	2.1	2.1	1.8	2.0	1.9	2.7	2.2	1.7	1.9	1.8
Idaho	0.4	0.4	0.6	S	0.3	0.4	0.4	0.2	0.4	0.4
Montana	0.3	0.3	0.4	S	0.8	0.2	0.4	0.2	0.2	0.2
New Mexico	1.4	1.2	0.7	1.0	0.9	2.4	0.7	0.9	2.4	1.0
Nevada	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.4	S
Utah	0.7	0.7	0.8	0.7	0.4	0.5	0.7	1.0	0.8	0.6
Wyoming	0.1	0.1	0.2	S	0.2	0.1	S	0.1	0.1	S
Pacific	19.2	18.7	18.2	28.5	16.2	21.2	18.8	15.0	23.5	11.8
Alaska	0.2	0.2	0.3	S	S	0.3	0.1	0.3	0.1	S
California	14.6	13.9	12.7	22.9	12.9	16.7	14.7	10.4	19.1	8.1
Hawaii	0.5	0.6	0.7	S	0.4	0.5	0.4	0.8	0.2	0.4
Oregon	1.3	1.3	1.6	2.3	1.0	1.2	1.1	1.1	1.4	1.1
Washington	2.6	2.6	3.0	2.8	2.0	2.5	2.5	2.4	2.6	2.2
Puerto Rico	0.3	0.3	0.4	S	0.3	0.2	0.5	0.3	0.2	S
Other U.S. territories and other areas	0.1	0.1	0.2	S	S	0.1	0.1	0.3	0.1	0.2

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Because survey sample design does not include geography, the reliability of estimates in some states may be poor due to small sample size. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 18. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, and faculty rank: 2003

Field and sex	Total	Full professor	Associate professor	Assistant professor	Instructor/ lecturer	All other faculty	Rank not applicable
All fields	259,380	91,380	57,080	52,350	10,110	1,230	47,230
Male	(70.2)	(82.4)	(68.9)	(59.0)	(48.6)	(80.6)	(64.9)
Female	(29.8)	(17.6)	(31.1)	(41.0)	(51.4)	(19.4)	(35.1)
Science	217,940	76,620	47,280	42,890	8,940	1,130	41,080
Male	(69.7)	(82.2)	(68.8)	(58.5)	(48.3)	(81.7)	(63.6)
Female	(30.3)	(17.8)	(31.2)	(41.5)	(51.7)	(18.3)	(36.4)
Biological, agricultural, and environmental life sciences	76,040	23,320	14,750	15,360	2,720	210	19,690
Male	(67.9)	(81.0)	(70.6)	(61.6)	(39.5)	(66.6)	(59.4)
Female	(32.1)	(19.0)	(29.4)	(38.4)	(60.5)	(33.4)	(40.6)
Computer and information sciences	5,280	1,170	1,910	1,370	230	S	600
Male	(81.7)	(87.7)	(80.1)	(76.7)	(74.7)	S	(89.4)
Female	(18.3)	(12.3)	(19.9)	(23.3)	(25.3)	S	(10.6)
Mathematics and statistics	16,630	7,430	4,050	2,940	870	80	1,250
Male	(82.9)	(90.8)	(84.1)	70.8	(58.2)	(95.2)	(76.6)
Female	(17.1)	(9.2)	(15.9)	29.2	(41.8)	S	(23.4)
Physical sciences	39,320	14,850	7,090	6,490	1,200	420	9,270
Male	(85.2)	(93.2)	(80.8)	(75.5)	(72.4)	(92.9)	(83.9)
Female	(14.8)	(6.8)	(19.2)	(24.5)	(27.6)	S	(16.1)
Psychology	31,680	10,290	6,440	6,990	1,690	200	6,070
Male	(50.0)	(69.2)	(47.5)	(36.9)	(19.0)	(86.5)	(42.6)
Female	(50.0)	(30.8)	(52.5)	(63.1)	(81.0)	S	(57.4)
Social sciences	48,980	19,560	13,040	9,730	2,230	220	4,190
Male	(67.2)	(78.6)	(64.5)	(51.6)	(61.6)	(65.6)	(61.5)
Female	(32.8)	(21.4)	(35.5)	(48.4)	(38.4)	(34.4)	(38.5)
Engineering	28,170	11,420	6,010	5,380	680	50	4,630
Male	(89.7)	(96.2)	(88.1)	(84.0)	(69.5)	(100.0)	(85.0)
Female	(10.3)	(3.8)	(11.9)	(16.0)	(30.5)	S	(15.0)
Health	13,280	3,340	3,780	4,080	500	50	1,520
Male	(36.5)	(41.1)	(38.9)	(30.8)	(26.9)	S	(38.6)
Female	(63.5)	(58.9)	(61.1)	(69.2)	(73.1)	S	(61.4)

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Percentage distribution is shown in parentheses. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 19. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, faculty rank, and years since doctorate: 2003

Field and sex	Total		Full professor		Associate professor		Assistant professor		Instructor/lecturer		All other faculty		Rank not applicable	
	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more
All fields	93,540	165,840	2,340	89,040	15,700	41,380	40,720	11,630	5,450	4,670	160	1,070	29,180	18,050
Male	(59.6)	(76.2)	(60.3)	(83.0)	(67.0)	(69.6)	(58.5)	(60.5)	(43.7)	(54.5)	(46.9)	(85.7)	(60.3)	(72.4)
Female	(40.4)	(23.8)	(39.7)	(17.0)	(33.0)	(30.4)	(41.5)	(39.5)	(56.3)	(45.5)	(53.1)	(14.3)	(39.7)	(27.6)
Science	76,900	141,040	1,700	74,920	12,200	35,080	32,870	10,020	4,660	4,280	130	1,000	25,330	15,750
Male	(59.2)	(75.5)	(65.9)	(82.6)	(66.9)	(69.5)	(58.4)	(58.7)	(43.4)	(53.6)	(58.7)	(84.7)	(59.1)	(71.0)
Female	(40.8)	(24.5)	(34.1)	(17.4)	(33.1)	(30.5)	(41.6)	(41.3)	(56.6)	(46.4)	(41.3)	(15.3)	(40.9)	(29.0)
Biological, agricultural, and environmental life sciences	28,460	47,580	350	22,960	2,350	12,400	10,070	5,290	1,350	1,370	S	160	14,290	5,400
Male	(59.3)	(73.1)	(53.8)	(81.4)	(66.4)	(71.4)	(62.6)	(59.7)	(43.3)	(35.7)	S	(85.2)	(57.6)	(64.3)
Female	(40.7)	(26.9)	(46.2)	(18.6)	(33.6)	(28.6)	(37.4)	(40.3)	(56.7)	(64.3)	S	S	(42.4)	(35.7)
Computer and information sciences	3,060	2,220	190	970	920	990	1,280	(90.0)	(110.0)	(120.0)	S	S	560	S
Male	(81.6)	(81.9)	(84.4)	(88.3)	(80.2)	(80.0)	(77.8)	(60.9)	(80.9)	(69.2)	S	S	(91.4)	S
Female	(18.4)	(18.1)	S	(11.7)	(19.8)	(20.0)	(22.2)	S	S	S	S	S	S	S
Mathematics and statistics	4,870	11,770	160	7,270	1,070	2,980	2,610	330	420	450	S	80	600	660
Male	(72.7)	(87.1)	(96.6)	(90.7)	78.5	(86.0)	(72.6)	(56.8)	(48.7)	(67.0)	S	(100.0)	(73.7)	(79.3)
Female	(27.3)	(12.9)	S	(9.3)	21.5	(14.0)	(27.4)	(43.2)	(51.3)	(33.0)	S	S	(26.3)	(20.7)
Physical sciences	12,300	27,020	240	14,610	1,590	5,510	5,020	1,470	470	730	80	340	4,910	4,360
Male	(77.5)	(88.7)	(97.5)	(93.1)	(78.0)	(81.7)	(75.0)	(77.2)	(69.5)	(74.2)	(94.5)	(92.5)	(79.5)	(88.8)
Female	(22.5)	(11.3)	S	(6.9)	(22.0)	(18.3)	(25.0)	(22.8)	(30.5)	(25.8)	S	S	(20.5)	(11.2)
Psychology	12,170	19,510	170	10,120	2,030	4,410	5,510	1,480	1,180	510	S	200	3,280	2,780
Male	(34.8)	(59.4)	(53.7)	(69.4)	(43.1)	(49.6)	(36.0)	(40.3)	(15.8)	(26.5)	S	(86.5)	(33.6)	(53.1)
Female	(65.2)	(40.6)	(46.3)	(30.6)	(56.9)	(50.4)	(64.0)	(59.7)	(84.2)	(73.5)	S	S	(66.4)	(46.9)
Social sciences	16,050	32,930	580	18,980	4,250	8,790	8,390	1,350	1,130	1,100	S	220	1,690	2,500
Male	(55.3)	(72.9)	(49.3)	(79.5)	(68.5)	(62.5)	(51.0)	(55.4)	(55.8)	(67.7)	S	(65.6)	(45.7)	(72.2)
Female	(44.7)	(27.1)	(50.7)	(20.5)	(31.5)	(37.5)	(49.0)	(44.6)	(44.2)	(32.3)	S	(34.4)	(54.3)	(27.8)
Engineering	9,960	18,210	290	11,140	2,160	3,850	4,310	1,070	420	260	S	50	2,790	1,840
Male	(81.3)	(94.2)	(91.9)	(96.3)	(87.5)	(88.5)	(80.7)	(97.0)	(61.3)	(82.5)	S	(100.0)	(79.2)	(93.8)
Female	(18.7)	(5.8)	S	(3.7)	(12.5)	(11.5)	(19.3)	S	(38.7)	S	S	S	(20.8)	(6.2)
Health	6,680	6,590	350	2,990	1,330	2,450	3,540	540	370	130	S	S	1,060	460
Male	(32.1)	(41.0)	S	(45.1)	(34.6)	(41.3)	(32.3)	(21.5)	(27.5)	S	S	S	(39.1)	(37.4)
Female	(67.9)	(59.0)	(93.1)	(54.9)	(65.4)	(58.7)	(67.7)	(78.5)	(72.5)	(74.6)	S	S	(60.9)	(62.6)

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Percentage distribution is shown in parentheses. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 20. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and faculty rank: 2003 (corrected January 2011)

Field and race/ethnicity	Total	Full professor	Associate professor	Assistant professor	Instructor/ lecturer	All other faculty	Rank not applicable
All fields	259,380	91,380	57,080	52,350	10,110	1,230	47,230
American Indian/Alaska Native	(0.2)	(0.2)	(0.1)	(0.3)	S	S	(0.1)
Asian	(12.7)	(8.8)	(10.6)	(15.5)	(11.4)	S	(20.0)
Black	(3.4)	(2.3)	(4.1)	(4.4)	(4.1)	S	(3.4)
Hispanic	(3.4)	(2.5)	(3.6)	(4.5)	(3.2)	S	(3.5)
White	(79.1)	(84.8)	(80.5)	(73.8)	(80.3)	(95.9)	(71.5)
Other race[a]	(1.3)	(1.4)	(1.0)	(1.5)	(1.1)	S	(1.5)
Science	217,940	76,620	47,280	42,890	8,940	1,130	41,080
American Indian/Alaska Native	(0.2)	(0.2)	(0.1)	(0.4)	S	S	(0.2)
Asian	(11.7)	(7.4)	(10.0)	(14.4)	(10.0)	S	(19.4)
Black	(3.3)	(2.2)	(4.0)	(4.2)	(3.7)	S	(3.6)
Hispanic	(3.3)	(2.5)	(3.5)	(4.6)	(2.8)	S	(3.4)
White	(80.2)	(86.3)	(81.2)	(74.9)	(82.3)	(95.5)	(72.0)
Other race[a]	(1.3)	(1.3)	(1.0)	(1.5)	(1.2)	S	(1.4)
Biological, agricultural, and environmental life sciences	76,040	23,320	14,750	15,360	2,720	210	19,690
American Indian/Alaska Native	(0.2)	(0.2)	S	S	S	S	S
Asian	(15.0)	(6.5)	(10.3)	(19.6)	(14.8)	S	(25.0)
Black	(2.3)	(1.9)	(2.2)	(2.7)	(2.7)	S	(2.4)
Hispanic	(3.3)	(2.3)	(4.1)	(4.6)	(2.6)	S	(3.1)
White	(78.0)	(88.0)	(82.0)	(71.7)	(77.7)	(96.1)	(68.2)
Other race[a]	(1.2)	(1.1)	(1.3)	(1.1)	(2.1)	S	(1.2)
Computer and information sciences	5,280	1,170	1,910	1,370	230	S	600
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	(27.0)	(34.2)	(25.9)	(28.2)	S	S	(20.1)
Black	(3.5)	S	(6.1)	(3.8)	S	S	S
Hispanic	(2.8)	S	S	(3.7)	S	S	S
White	(65.4)	(61.8)	(62.8)	(63.4)	(83.9)	S	(77.8)
Other race[a]	(1.3)	S	(3.0)	S	S	S	S
Mathematics and statistics	16,630	7,430	4,050	2,940	870	80	1,250
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	(15.7)	(13.3)	(16.9)	(18.0)	(18.8)	S	(18.8)
Black	(2.3)	(1.7)	(3.6)	(2.1)	S	S	S
Hispanic	(2.6)	(2.5)	(3.3)	(2.9)	S	S	S
White	(78.2)	(80.9)	(76.1)	(75.8)	(80.3)	(95.2)	(72.5)
Other race[a]	(1.1)	(1.6)	S	S	S	S	S
Physical sciences	39,320	14,850	7,090	6,490	1,200	420	9,270
American Indian/Alaska Native	(0.2)	S	S	S	S	S	S
Asian	(12.9)	(9.6)	(8.3)	(12.9)	(11.4)	S	(22.1)
Black	(1.9)	(1.4)	(2.0)	(3.5)	S	S	(1.4)
Hispanic	(2.9)	(3.2)	(3.6)	(2.2)	S	S	(2.5)
White	(80.8)	(84.0)	(85.8)	(79.1)	(81.7)	(90.7)	(72.2)
Other race[a]	(1.5)	(1.7)	S	(1.6)	S	S	(1.9)
Psychology	31,680	10,290	6,440	6,990	1,690	200	6,070
American Indian/Alaska Native	(0.3)	S	S	S	S	S	S
Asian	(3.2)	(1.2)	(3.3)	(4.6)	S	S	(5.3)
Black	(5.1)	(1.3)	(7.6)	(4.8)	(8.0)	S	(8.8)
Hispanic	(4.2)	(1.8)	(4.2)	(6.8)	(4.9)	S	(5.2)
White	(85.8)	(93.7)	(83.4)	(82.0)	(85.1)	(100.0)	(79.3)
Other race[a]	(1.4)	(1.8)	(1.4)	(1.4)	S	S	(1.1)
Social sciences	48,980	19,560	13,040	9,730	2,230	220	4,190
American Indian/Alaska Native	(0.3)	(0.3)	S	S	S	S	S
Asian	(8.2)	(6.3)	(9.6)	(11.2)	(5.8)	S	(7.9)

TABLE 20. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and faculty rank: 2003 (corrected January 2011)

Field and race/ethnicity	Total	Full professor	Associate professor	Assistant professor	Instructor/ lecturer	All other faculty	Rank not applicable
Black	(5.1)	(3.8)	(5.2)	(7.3)	(4.1)	S	(6.5)
Hispanic	(3.4)	(2.7)	(2.9)	(5.4)	(2.7)	S	(4.6)
White	(81.6)	(85.8)	(81.1)	(73.4)	(86.6)	(100.0)	(78.4)
Other race[a]	(1.4)	(1.2)	(0.9)	(2.3)	S	S	(2.0)
Engineering	28,170	11,420	6,010	5,380	680	50	4,630
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	(21.9)	(19.6)	(19.0)	(27.5)	(26.0)	S	(24.5)
Black	(3.2)	(2.6)	(4.2)	(3.6)	S	S	(2.2)
Hispanic	(3.8)	(2.4)	(4.8)	(5.0)	S	S	(4.4)
White	(70.0)	(73.9)	(71.4)	(62.3)	(62.7)	(100.0)	(67.9)
Other race[a]	(1.2)	(1.5)	S	(1.5)	S	S	S
Health	13,280	3,340	3,780	4,080	500	50	1,520
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	(8.5)	(4.0)	(4.4)	(10.6)	(15.6)	S	(20.5)
Black	(5.4)	(3.6)	(5.3)	(7.3)	S	S	(4.0)
Hispanic	(3.0)	(2.3)	(2.3)	(3.1)	S	S	(4.6)
White	(81.4)	(88.2)	(86.4)	(77.9)	(68.8)	(100.0)	(66.9)
Other race[a]	(1.5)	(1.7)	(1.5)	S	S	S	(3.9)

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Percentage distribution is shown in parentheses. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 21. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, and tenure status: 2003

Field and sex	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All fields	259,380	127,670	42,870	27,020	61,820
Male	(70.2)	(78.3)	(63.5)	(58.0)	(63.5)
Female	(29.8)	(21.7)	(36.5)	(42.0)	(36.5)
Science	217,940	106,750	34,670	22,980	53,550
Male	(69.7)	(77.8)	(63.6)	(58.2)	(62.6)
Female	(30.3)	(22.2)	(36.4)	(41.8)	(37.4)
Biological, agricultural, and environmental life sciences	76,040	30,940	11,740	9,360	24,000
Male	(67.9)	(78.3)	(66.8)	(55.8)	(59.9)
Female	(32.1)	(21.7)	(33.2)	(44.2)	(40.1)
Computer and information sciences	5,280	2,670	1,460	420	740
Male	(81.7)	(82.3)	(82.9)	(72.0)	(82.8)
Female	(18.3)	(17.7)	(17.1)	(28.0)	(17.2)
Mathematics and statistics	16,630	10,610	2,930	1,090	1,990
Male	(82.9)	(88.1)	(77.5)	(50.7)	(80.5)
Female	(17.1)	(11.9)	(22.5)	(49.3)	(19.5)
Physical sciences	39,320	18,930	5,350	4,140	10,900
Male	(85.2)	(88.9)	(75.9)	(81.9)	(84.5)
Female	(14.8)	(11.1)	(24.1)	(18.1)	(15.5)
Psychology	31,680	13,970	4,590	3,820	9,300
Male	(50.0)	(62.4)	(38.3)	(38.1)	(41.9)
Female	(50.0)	(37.6)	(61.7)	(61.9)	(58.1)
Social sciences	48,980	29,620	8,600	4,150	6,610
Male	(67.2)	(73.4)	(57.2)	(59.0)	(57.5)
Female	(32.8)	(26.6)	(42.8)	(41.0)	(42.5)
Engineering	28,170	15,480	4,930	2,170	5,580
Male	(89.7)	(93.8)	(82.0)	(84.5)	(86.9)
Female	(10.3)	(6.2)	(18.0)	(15.5)	(13.1)
Health	13,280	5,440	3,270	1,880	2,690
Male	(36.5)	(43.5)	(34.2)	(25.6)	(32.6)
Female	(63.5)	(56.5)	(65.8)	(74.4)	(67.4)

NOTES: Percentage distribution is shown in parentheses. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 22. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, tenure status, and years since doctorate: 2003

Field and sex	Total		Tenured		Not tenured				Tenure not applicable	
					On tenure track		Not on tenure track			
	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more
All fields	93,540	165,840	13,650	114,010	33,190	9,680	13,340	13,680	33,360	28,460
Male	(59.6)	(76.2)	(67.6)	(79.6)	(62.6)	(66.6)	(51.2)	(64.7)	(56.8)	(71.3)
Female	(40.4)	(23.8)	(32.4)	(20.4)	(37.4)	(33.4)	(48.8)	(35.3)	(43.2)	(28.7)
Science	76,900	141,040	10,670	96,070	26,560	8,110	10,810	12,170	28,860	24,680
Male	(59.2)	(75.5)	(68.0)	(78.9)	(62.7)	(66.8)	(51.8)	(63.8)	(55.6)	(70.8)
Female	(40.8)	(24.5)	(32.0)	(21.1)	(37.3)	(33.2)	(48.2)	(36.2)	(44.4)	(29.2)
Biological, agricultural, and environmental life sciences	28,460	47,580	2,020	28,920	7,440	4,300	4,110	5,250	14,890	9,110
Male	(59.3)	(73.1)	(71.3)	(78.8)	(67.0)	(66.4)	(51.8)	(58.9)	(55.8)	(66.6)
Female	(40.7)	(26.9)	(28.7)	(21.2)	(33.0)	(33.6)	(48.2)	(41.1)	(44.2)	(33.4)
Computer and information sciences	3,060	2,220	830	1,840	1,330	130	250	170	650	90
Male	(81.6)	(81.9)	(80.4)	(83.1)	(81.2)	(100.0)	(75.3)	(67.1)	(86.1)	(58.2)
Female	(18.4)	(18.1)	(19.6)	(16.9)	(18.8)	S	(24.7)	(32.9)	(13.9)	S
Mathematics and statistics	4,870	11,770	930	9,680	2,490	440	540	550	900	1,090
Male	(72.7)	(87.1)	(78.1)	(89.1)	(75.4)	(89.7)	(46.2)	(55.2)	(75.7)	(84.4)
Female	(27.3)	(12.9)	(21.9)	(10.9)	24.6	S	(53.8)	(44.8)	(24.3)	(15.6)
Psychology	12,300	27,020	1,440	17,490	4,060	1,300	1,670	2,460	5,130	5,770
Male	(77.5)	(88.7)	(81.0)	(89.6)	(76.7)	(73.3)	(77.8)	(84.6)	(77.0)	(91.2)
Female	(22.5)	(11.3)	(19.0)	(10.4)	(23.3)	(26.7)	(22.2)	(15.4)	(23.0)	(8.8)
Physical sciences	12,170	19,510	1,530	12,440	3,760	820	2,100	1,720	4,780	4,520
Male	(34.8)	(59.4)	(46.7)	(64.4)	(38.9)	(35.4)	(24.8)	(54.2)	(32.2)	(52.3)
Female	(65.2)	(40.6)	(53.3)	(35.6)	(61.1)	(64.6)	(75.2)	(45.8)	(67.8)	(47.7)
Social sciences	16,050	32,930	3,920	25,710	7,480	1,120	2,140	2,010	2,510	4,100
Male	(55.3)	(72.9)	(64.9)	(74.6)	(55.1)	(71.0)	(56.7)	(61.4)	(39.8)	(68.3)
Female	(44.7)	(27.1)	(35.1)	(25.4)	(44.9)	(29.0)	(43.3)	(38.6)	(60.2)	(31.7)
Engineering	9,960	18,210	1,780	13,700	3,940	990	1,320	860	2,920	2,660
Male	(81.3)	(94.2)	(87.7)	(94.6)	(79.4)	(92.6)	(76.8)	(96.3)	(81.9)	(92.3)
Female	(18.7)	(5.8)	(12.3)	(5.4)	(20.6)	(7.4)	(23.2)	S	(18.1)	(7.7)
Health	6,680	6,590	1,200	4,240	2,690	580	1,210	660	1,580	1,110
Male	(32.1)	(41.0)	(34.2)	(46.2)	(37.4)	(19.6)	(17.4)	(40.5)	(32.7)	(32.5)
Female	(67.9)	(59.0)	(65.8)	(53.8)	(62.6)	(80.4)	(82.6)	(59.5)	(67.3)	(67.5)

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Percentage distribution is shown in parentheses. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 23. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and tenure status: 2003 (corrected January 2011)

Field and race/ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All fields	259,380	127,670	42,870	27,020	61,820
American Indian/Alaska Native	(0.2)	(0.2)	(0.4)	S	(0.1)
Asian	(12.7)	(9.6)	(14.9)	(14.8)	(16.5)
Black	(3.4)	(3.0)	(4.8)	(3.3)	(3.3)
Hispanic	(3.4)	(2.9)	(4.6)	(3.4)	(3.6)
White	(79.1)	(83.2)	(73.8)	(77.2)	(75.1)
Other race[a]	(1.3)	(1.2)	(1.5)	(1.1)	(1.4)
Science	217,940	106,750	34,670	22,980	53,550
American Indian/Alaska Native	(0.2)	(0.2)	(0.4)	S	(0.1)
Asian	(11.7)	(8.3)	(13.8)	(14.7)	(15.9)
Black	(3.3)	(2.9)	(4.7)	(3.1)	(3.4)
Hispanic	(3.3)	(2.9)	(4.6)	(3.1)	(3.5)
White	(80.2)	(84.6)	(75.0)	(77.8)	(75.7)
Other race[a]	(1.3)	(1.2)	(1.4)	(1.1)	(1.5)
Biological, agricultural, and environmental life sciences	76,040	30,940	11,740	9,360	24,000
American Indian/Alaska Native	(0.2)	(0.2)	(0.5)	S	S
Asian	(15.0)	(7.8)	(16.4)	(22.5)	(20.7)
Black	(2.3)	(2.0)	(3.4)	(2.4)	(2.1)
Hispanic	(3.3)	(2.6)	(5.0)	(2.7)	(3.7)
White	(78.0)	(86.1)	(74.0)	(71.6)	(72.1)
Other race[a]	(1.2)	(1.3)	(0.7)	(0.9)	(1.4)
Computer and information sciences	5,280	2,670	1,460	420	740
American Indian/Alaska Native	S	S	S	S	S
Asian	(27.0)	(29.2)	(34.1)	S	(14.9)
Black	(3.5)	(4.7)	S	S	S
Hispanic	(2.8)	(3.0)	S	S	S
White	(65.4)	(61.1)	(58.9)	(85.2)	(82.5)
Other race[a]	(1.3)	(2.1)	S	S	S
Mathematics and statistics	16,630	10,610	2,930	1,090	1,990
American Indian/Alaska Native	S	S	S	S	S
Asian	(15.7)	(13.6)	(20.4)	(23.2)	(15.5)
Black	(2.3)	(2.3)	(2.8)	S	(2.7)
Hispanic	(2.6)	(3.0)	(2.0)	S	(2.6)
White	(78.2)	(79.9)	(73.8)	(74.4)	(77.9)
Other race[a]	(1.1)	(1.1)	S	S	S
Physical sciences	39,320	18,930	5,350	4,140	10,900
American Indian/Alaska Native	(0.2)	S	S	S	S
Asian	(12.9)	(9.5)	(10.1)	(14.0)	(19.6)
Black	(1.9)	(1.3)	(2.9)	(3.3)	(1.9)
Hispanic	(2.9)	(3.6)	(2.1)	(2.7)	(2.0)
White	(80.8)	(84.2)	(82.5)	(79.2)	(74.6)
Other race[a]	(1.5)	(1.3)	(1.6)	S	(1.9)
Psychology	31,680	13,970	4,590	3,820	9,300
American Indian/Alaska Native	(0.3)	S	S	S	S
Asian	(3.2)	(1.7)	(6.2)	(3.2)	(4.0)
Black	(5.1)	(3.7)	(5.8)	(4.0)	(7.3)
Hispanic	(4.2)	(2.5)	(5.5)	(6.6)	(5.2)
White	(85.8)	(90.4)	(80.2)	(84.4)	(82.3)
Other race[a]	(1.4)	(1.5)	(2.2)	S	(0.9)
Social sciences	48,980	29,620	8,600	4,150	6,610
American Indian/Alaska Native	(0.3)	(0.3)	S	S	S

TABLE 23. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and tenure status: 2003 (corrected January 2011)

Field and race/ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Asian	(8.2)	(7.5)	(10.9)	(6.7)	(9.1)
Black	(5.1)	(4.4)	(7.8)	(4.7)	(5.2)
Hispanic	(3.4)	(2.7)	(6.5)	(1.9)	(3.7)
White	(81.6)	(84.2)	(72.3)	(84.8)	(79.4)
Other race[a]	(1.4)	(0.9)	(2.1)	(2.0)	(2.1)
Engineering	28,170	15,480	4,930	2,170	5,580
American Indian/Alaska Native	S	S	S	S	S
Asian	(21.9)	(19.9)	(26.7)	(18.5)	(24.5)
Black	(3.2)	(3.1)	(4.7)	(3.0)	(1.9)
Hispanic	(3.8)	(3.3)	(4.6)	(5.1)	(4.0)
White	(70.0)	(72.6)	(62.4)	(71.5)	(68.8)
Other race[a]	(1.2)	(1.0)	(1.7)	S	S
Health	13,280	5,440	3,270	1,880	2,690
American Indian/Alaska Native	S	S	S	S	S
Asian	(8.5)	(4.5)	(9.0)	(12.4)	(13.1)
Black	(5.4)	(4.9)	(6.9)	(6.3)	(4.1)
Hispanic	(3.0)	(1.6)	(3.5)	(5.3)	(3.7)
White	(81.4)	(87.5)	(77.8)	(75.4)	(77.5)
Other race[a]	(1.5)	(1.4)	(2.3)	S	S

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Percentage distribution is shown in parentheses. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 24. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, primary work activity, and secondary work activity: 2003

Field and primary work activity	Total	Secondary work activity (%)						
		Total	Computer applications	Management, sales, administration	R&D [a]	Teaching	Other	None
All fields	259,380	100.0	3.2	21.9	38.6	21.0	6.0	9.3
Computer applications	3,700	100.0	na	16.2	51.0	14.1	3.2	15.6
Management, sales, administration	30,210	100.0	1.9	29.8	29.5	25.9	7.1	5.7
R&D [a]	105,090	100.0	4.3	23.0	22.9	39.7	3.7	6.4
Teaching	103,880	100.0	2.7	17.5	58.8	na	8.8	12.2
Other	16,500	100.0	1.8	29.1	25.1	27.6	0.7	15.7
Science	217,940	100.0	2.9	22.3	38.2	20.5	6.2	9.9
Computer applications	2,940	100.0	na	15.1	52.9	12.5	4.0	15.5
Management, sales, administration	24,260	100.0	1.8	29.7	29.5	25.6	7.0	6.4
R&D [a]	88,810	100.0	4.1	24.4	22.2	38.5	4.1	6.8
Teaching	87,370	100.0	2.3	17.1	58.7	na	9.0	12.8
Other	14,560	100.0	1.5	30.1	24.4	26.7	0.7	16.6
Biological, agricultural, and environmental life sciences	76,040	100.0	2.1	27.6	33.3	20.8	6.1	10.1
Computer applications	510	100.0	na	S	55.5	19.9	S	19.5
Management, sales, administration	8,060	100.0	0.6	25.8	38.3	22.0	7.0	6.2
R&D [a]	42,690	100.0	3.1	31.6	23.5	28.2	5.2	8.4
Teaching	18,550	100.0	0.8	21.2	55.3	na	9.8	12.9
Other	6,230	100.0	S	24.2	26.7	29.8	0.8	18.0
Computer and information sciences	5,280	100.0	9.8	13.6	45.9	21.2	3.2	6.3
Computer applications	260	100.0	na	S	91.1	S	S	S
Management, sales, administration	450	100.0	S	34.7	26.2	17.4	S	S
R&D [a]	1,860	100.0	9.1	11.2	20.9	55.1	S	2.7
Teaching	2,620	100.0	10.4	12.6	64.0	na	4.8	8.2
Other	80	100.0	S	S	S	S	S	S
Mathematics and statistics	16,630	100.0	3.8	14.4	42.6	22.9	4.2	12.1
Computer applications	370	100.0	na	S	30.8	23.4	S	35.4
Management, sales, administration	1,720	100.0	S	30.9	17.1	42.6	3.0	4.8
R&D [a]	4,260	100.0	2.3	9.5	15.7	66.8	S	4.7
Teaching	9,820	100.0	5.0	14.2	60.0	na	5.9	14.8
Other	470	100.0	S	11.2	23.8	30.7	S	30.6
Physical sciences	39,320	100.0	6.2	20.3	41.8	17.7	4.0	10.0
Computer applications	1,330	100.0	na	20.5	57.9	4.4	4.6	12.6
Management, sales, administration	4,350	100.0	4.5	32.9	36.4	16.4	2.6	7.2
R&D [a]	16,440	100.0	9.5	18.4	26.6	36.6	1.8	7.1
Teaching	15,750	100.0	3.9	18.5	58.2	na	7.0	12.4
Other	1,450	100.0	5.3	23.8	35.6	13.4	S	21.9
Psychology	31,680	100.0	1.7	23.4	34.9	19.8	10.4	9.7
Computer applications	S	S	na	S	S	S	S	S
Management, sales, administration	3,200	100.0	3.3	20.1	23.6	22.7	19.5	10.9
R&D [a]	10,330	100.0	2.3	23.9	19.9	41.9	7.0	4.9
Teaching	13,330	100.0	1.6	16.7	54.8	na	14.4	12.6
Other	4,800	100.0	S	42.7	19.7	25.4	S	11.6
Social sciences	48,980	100.0	1.1	18.7	42.8	21.8	6.2	9.5
Computer applications	440	100.0	na	19.1	34.2	27.6	S	13.3
Management, sales, administration	6,480	100.0	S	36.4	20.4	33.6	4.8	4.5
R&D [a]	13,220	100.0	1.5	15.9	16.6	59.7	2.3	4.0
Teaching	27,300	100.0	1.0	15.3	62.1	na	8.6	12.9
Other	1,530	100.0	4.1	27.6	21.0	30.4	S	15.6

TABLE 24. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, primary work activity, and secondary work activity: 2003

		Secondary work activity (%)						
Field and primary work activity	Total	Total	Computer applications	Management, sales, administration	R&D [a]	Teaching	Other	None
Engineering	28,170	100.0	6.0	17.0	44.2	25.0	2.6	5.2
Computer applications	650	100.0	na	16.1	48.2	20.1	S	15.5
Management, sales, administration	3,690	100.0	2.7	31.2	33.5	27.5	4.4	S
R&D [a]	11,640	100.0	6.8	11.7	29.9	47.7	1.2	2.6
Teaching	11,110	100.0	6.6	18.0	63.5	na	4.0	8.0
Other	1,080	100.0	6.7	14.8	35.0	30.9	S	12.5
Health	13,280	100.0	1.7	24.6	33.5	22.0	9.9	8.4
Computer applications	110	100.0	na	45.0	S	S	S	S
Management, sales, administration	2,260	100.0	S	29.4	22.6	27.3	12.9	6.6
R&D [a]	4,640	100.0	2.4	24.4	19.9	42.0	3.4	7.8
Teaching	5,400	100.0	1.5	21.4	51.5	na	15.5	10.1
Other	860	100.0	S	30.4	23.9	38.9	S	S

na = not applicable. Same work activity cannot be reported as both primary and secondary except "R&D," "Management," and "Other," because these categories include more than one type of work activity.

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] R&D includes basic or applied research, development, and design.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 25. Doctoral scientists and engineers, by occupation and employment status: 2003

Occupation	All fields	Employed			Unemployed	Retired	Not employed/ not seeking work
		Total	Full-time	Part-time			
All occupations	685,010	593,300	530,960	62,340	12,940	64,120	14,640
Science occupations	405,330	352,960	312,640	40,320	6,430	36,960	8,990
Biological, agricultural, and other life scientist	120,900	104,650	97,780	6,870	1,830	11,150	3,260
Agricultural/food scientist	9,930	8,200	7,720	480	140	1,470	110
Biochemist/biophysicist	16,140	13,920	13,250	660	380	1,280	570
Biological scientist	21,430	18,390	17,230	1,160	430	1,830	790
Forestry/conservation scientist	1,700	1,390	1,270	120	S	270	S
Medical scientist	32,170	28,860	27,280	1,580	610	1,840	860
Postsecondary teacher, agricultural/other natural sciences	5,270	4,410	4,320	90	S	800	60
Postsecondary teacher, biological sciences	27,990	24,280	21,840	2,440	110	3,180	420
Other biological/agricultural/life scientist	6,250	5,200	4,860	340	160	480	410
Computer and information scientist	38,460	34,410	32,100	2,310	1,200	2,200	650
Computer/information scientist	30,210	26,770	25,100	1,670	1,200	1,650	600
Postsecondary teacher, computer science	8,250	7,640	7,000	640	S	550	60
Mathematical scientist	26,080	22,460	20,470	1,990	370	2,840	400
Mathematical scientist	10,250	8,830	8,210	620	310	890	220
Postsecondary teacher, mathematics/statistics	15,830	13,640	12,260	1,380	50	1,950	190
Physical scientist	87,590	73,730	68,140	5,590	1,740	10,600	1,510
Chemist, except biochemist	29,400	23,700	21,990	1,710	1,010	3,930	750
Earth/atmospheric/ocean scientist	10,930	9,010	8,400	600	210	1,560	160
Physicist/astronomer	15,710	13,650	12,620	1,040	200	1,650	210
Postsecondary teacher, chemistry	13,140	11,400	10,500	900	90	1,460	190
Postsecondary teacher, physics	9,110	7,810	7,100	720	50	1,140	110
Postsecondary teacher, other physical sciences	6,820	6,020	5,650	370	S	720	S
Other physical scientist	2,470	2,130	1,880	250	150	140	60
Psychologist	74,060	67,110	49,530	17,580	560	4,270	2,120
Psychologist	54,540	49,600	34,440	15,160	440	2,780	1,720
Postsecondary teacher, psychology	19,520	17,510	15,090	2,420	120	1,480	400
Social scientist	58,250	50,590	44,620	5,970	730	5,900	1,040
Economist	8,790	7,720	6,970	750	70	840	170
Political scientist	2,000	1,450	1,070	380	S	470	60
Postsecondary teacher, economics	9,690	8,410	7,360	1,050	90	1,000	180
Postsecondary teacher, political science	9,470	8,470	7,590	870	S	910	70
Postsecondary teacher, sociology	8,320	7,140	6,300	840	50	1,080	50
Postsecondary teacher, other social sciences	10,030	9,010	7,900	1,100	70	810	150
Sociologist/anthropologist	5,130	4,130	3,590	540	250	600	150
Other social scientist	4,820	4,280	3,840	440	150	200	200
Engineering occupations	89,160	77,000	72,050	4,950	2,130	8,780	1,250
Aerospace/aeronautical/astronautical engineer	5,110	4,050	3,840	210	110	850	90
Chemical engineer	8,430	7,010	6,570	440	230	950	240
Civil/architectural/sanitary engineer	4,430	3,780	3,520	250	70	520	70
Electrical engineer	18,430	16,550	15,440	1,110	640	1,170	80
Materials/metallurgical engineer	1,580	1,340	1,260	80	50	120	70
Mechanical engineer	10,000	8,570	7,940	630	260	1,030	140
Postsecondary teacher, engineering	19,600	17,380	16,660	720	90	1,990	140
Other engineer	21,570	18,330	16,820	1,510	680	2,150	420
Science and engineering-related occupations	73,970	64,650	59,700	4,940	1,350	6,620	1,360
Health-related occupation, except postsecondary teacher	19,420	17,050	14,820	2,230	400	1,370	600
Postsecondary teacher, health and related sciences	19,560	17,330	16,030	1,300	80	1,890	260
S&E manager	25,980	23,060	22,530	520	400	2,350	180
S&E precollege teacher	3,800	3,240	2,690	550	100	320	130
S&E technician/technologist	4,780	3,560	3,280	270	360	700	160

TABLE 25. Doctoral scientists and engineers, by occupation and employment status: 2003

Occupation	All fields	Employed			Unemployed	Retired	Not employed/ not seeking work
		Total	Full-time	Part-time			
Other S&E-related occupation	440	410	350	60	S	S	S
Non-science and engineering occupations	116,540	98,700	86,570	12,130	3,030	11,760	3,050
Arts/humanities-related occupation	6,280	5,210	3,530	1,680	90	530	460
Management-related occupation	17,630	15,120	12,670	2,460	590	1,600	320
Non-S&E manager	51,680	44,320	43,120	1,190	1,150	5,750	470
Non-S&E postsecondary teacher	13,620	11,860	10,400	1,460	130	1,320	300
Non-S&E precollege/other teacher	3,100	2,400	1,320	1,080	160	290	250
Sales/marketing occupation	9,130	7,810	6,340	1,470	380	670	270
Social service-related occupation	3,920	3,390	2,570	820	60	230	240
Other non-S&E occupation	10,650	8,130	6,270	1,860	460	1,300	750

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

NOTES: If respondent was not employed during survey reference period, occupation of last job was reported. Numbers are rounded to nearest 10. Detail may not add to total because of rounding. Excludes estimated 291 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 26. Doctoral scientists and engineers, by broad occupation, employment status, and sex: 2003

Employment status and occupation	Total	Male	Female
All occupations	685,010	501,110	183,900
Employed full-time	530,960	397,380	133,580
Employed part-time	62,340	34,770	27,570
Unemployed	12,940	9,020	3,920
Retired	64,120	54,880	9,240
Not employed, not seeking work	14,640	5,050	9,590
Science occupations	405,330	286,130	119,200
Employed full-time	312,640	227,160	85,480
Employed part-time	40,320	20,950	19,370
Unemployed	6,430	4,190	2,240
Retired	36,960	31,220	5,740
Not employed, not seeking work	8,990	2,600	6,390
Biological, agricultural, and other life scientist	120,900	82,340	38,560
Employed full-time	97,780	67,280	30,500
Employed part-time	6,870	3,830	3,040
Unemployed	1,830	1,050	780
Retired	11,150	9,380	1,770
Not employed, not seeking work	3,260	800	2,460
Computer and information scientist	38,460	33,080	5,380
Employed full-time	32,100	27,910	4,190
Employed part-time	2,310	1,840	470
Unemployed	1,200	960	240
Retired	2,200	1,970	230
Not employed, not seeking work	650	400	250
Mathematical scientist	26,080	20,800	5,270
Employed full-time	20,470	16,220	4,240
Employed part-time	1,990	1,610	380
Unemployed	370	240	130
Retired	2,840	2,570	280
Not employed, not seeking work	400	150	250
Physical scientist	87,590	74,710	12,880
Employed full-time	68,140	58,320	9,820
Employed part-time	5,590	4,400	1,190
Unemployed	1,740	1,390	360
Retired	10,600	9,870	730
Not employed, not seeking work	1,510	730	790
Psychologist	74,060	35,220	38,830
Employed full-time	49,530	26,880	22,650
Employed part-time	17,580	5,440	12,140
Unemployed	560	230	330
Retired	4,270	2,480	1,780
Not employed, not seeking work	2,120	190	1,930
Social scientist	58,250	39,970	18,280
Employed full-time	44,620	30,540	14,080
Employed part-time	5,970	3,830	2,140
Unemployed	730	330	400
Retired	5,900	4,940	950
Not employed, not seeking work	1,040	330	710
Engineering occupations	89,160	81,310	7,850
Employed full-time	72,050	65,640	6,420
Employed part-time	4,950	4,410	540
Unemployed	2,130	1,880	250
Retired	8,780	8,700	80
Not employed, not seeking work	1,250	690	560

TABLE 26. Doctoral scientists and engineers, by broad occupation, employment status, and sex: 2003

Employment status and occupation	Total	Male	Female
Science and engineering-related occupations	73,970	50,370	23,600
Employed full-time	59,700	41,150	18,550
Employed part-time	4,940	2,560	2,390
Unemployed	1,350	920	420
Retired	6,620	5,160	1,470
Not employed, not seeking work	1,360	590	770
Non-science and engineering occupations	116,540	83,300	33,240
Employed full-time	86,570	63,430	23,140
Employed part-time	12,130	6,860	5,270
Unemployed, seeking work	3,030	2,030	1,000
Unemployed	11,760	9,800	1,950
Not employed, not seeking work	3,050	1,170	1,880

NOTES: If respondent was not employed during survey reference period, occupation of last job was reported. Numbers are rounded to nearest 10. Detail may not add to total because of rounding. Excludes 291 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 27. Doctoral scientists and engineers, by broad occupation, employment status, and race/ethnicity: 2003 (corrected January 2011)

Employment status and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
All occupations	685,010	1,120	104,600	17,230	17,590	536,320	8,140
Employed full-time	530,960	860	90,310	14,470	14,610	404,060	6,660
Employed part-time	62,340	120	4,690	1,400	1,610	53,810	710
Unemployed	12,940	S	2,810	380	360	9,270	120
Retired	64,120	50	5,060	760	670	57,130	450
Not employed, not seeking work	14,640	90	1,730	230	350	12,040	190
Science occupations	405,330	710	56,880	9,750	11,080	321,910	5,000
Employed full-time	312,640	540	48,910	8,110	9,190	241,820	4,070
Employed part-time	40,320	90	2,700	840	1,100	35,100	490
Unemployed	6,430	S	1,440	220	200	4,530	S
Retired	36,960	50	2,640	460	420	33,100	290
Not employed, not seeking work	8,990	S	1,190	110	160	7,360	120
Biological, agricultural, and other life scientist	120,900	190	19,790	2,300	3,390	93,680	1,540
Employed full-time	97,780	150	17,430	2,000	3,030	73,930	1,240
Employed part-time	6,870	S	660	100	110	5,830	140
Unemployed	1,830	S	410	60	70	1,290	S
Retired	11,150	S	960	80	120	9,900	100
Not employed, not seeking work	3,260	S	330	60	70	2,720	60
Computer and information scientist	38,460	S	12,240	550	610	24,560	450
Employed full-time	32,100	S	11,090	400	580	19,620	380
Employed part-time	2,310	S	320	110	S	1,800	60
Unemployed	1,200	S	470	S	S	690	S
Retired	2,200	S	100	S	S	2,060	S
Not employed, not seeking work	650	S	260	S	S	380	S
Mathematical scientist	26,080	S	5,050	600	730	19,520	150
Employed full-time	20,470	S	4,240	530	590	14,940	130
Employed part-time	1,990	S	410	S	S	1,520	S
Unemployed	370	S	110	S	50	190	S
Retired	2,840	S	260	S	S	2,500	S
Not employed, not seeking work	400	S	S	S	S	370	S
Physical scientist	87,590	150	12,980	1,210	1,970	70,330	950
Employed full-time	68,140	100	11,000	1,050	1,700	53,380	910
Employed part-time	5,590	S	480	50	110	4,910	S
Unemployed	1,740	S	360	60	S	1,310	S
Retired	10,600	S	820	S	120	9,570	S
Not employed, not seeking work	1,510	S	330	S	S	1,160	S
Psychologist	74,060	150	1,740	2,460	2,600	65,980	1,130
Employed full-time	49,530	130	1,320	1,970	1,740	43,530	840
Employed part-time	17,580	S	280	340	730	16,040	180
Unemployed	560	S	S	S	S	470	S
Retired	4,270	S	50	110	S	3,990	70
Not employed, not seeking work	2,120	S	70	S	50	1,960	S
Social scientist	58,250	150	5,070	2,630	1,780	47,850	780
Employed full-time	44,620	100	3,830	2,160	1,540	36,410	570
Employed part-time	5,970	S	560	200	100	4,990	100
Unemployed	730	S	70	S	S	580	S
Retired	5,900	S	440	210	80	5,090	80
Not employed, not seeking work	1,040	S	170	S	S	770	S
Engineering occupations	89,160	50	25,710	1,420	2,120	58,990	870
Employed full-time	72,050	50	23,060	1,280	1,890	44,950	810
Employed part-time	4,950	S	400	100	60	4,380	S
Unemployed	2,130	S	850	S	S	1,210	S

TABLE 27. Doctoral scientists and engineers, by broad occupation, employment status, and race/ethnicity: 2003 (corrected January 2011)

Employment status and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Retired	8,780	S	1,090	S	90	7,530	S
Not employed, not seeking work	1,250	S	300	S	S	910	S
Science and engineering-related occupations	73,970	80	9,800	2,060	1,530	59,570	930
Employed full-time	59,700	70	8,450	1,640	1,370	47,330	830
Employed part-time	4,940	S	550	230	50	4,060	S
Unemployed	1,350	S	230	S	S	1,050	S
Retired	6,620	S	490	110	S	5,970	S
Not employed, not seeking work	1,360	S	70	60	70	1,160	S
Non-science and engineering occupations	116,540	270	12,220	4,010	2,860	95,840	1,340
Employed full-time	86,570	190	9,880	3,440	2,150	69,960	950
Employed part-time	12,130	S	1,030	230	400	10,270	180
Unemployed	3,030	S	300	110	90	2,470	60
Retired	11,760	S	840	180	130	10,530	80
Not employed, not seeking work	3,050	50	170	50	90	2,620	70

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: If respondent was not employed during survey reference period, occupation of last job was reported. Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding. Excludes 291 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 28. Selected employment characteristics of doctoral scientists and engineers, by occupation: 2003
(Percent)

Occupation	Unemployment rate	Involuntarily-out-of-field rate	Labor force participation rate
All occupations	2.1	5.0	88.5
Science occupations	1.8	3.8	88.7
Biological, agricultural, and other life scientist	1.7	2.0	88.1
Agricultural/food scientist	1.7	2.0	84.0
Biochemist/biophysicist	2.6	1.3	88.6
Biological scientist	2.3	2.5	87.8
Forestry/conservation scientist	S	S	81.4
Medical scientist	2.1	1.2	91.6
Postsecondary teacher, agricultural/other natural sciences	S	S	83.7
Postsecondary teacher, biological sciences	0.5	2.9	87.1
Other biological/agricultural/life scientist	2.9	3.0	85.7
Computer and information scientist	3.4	13.8	92.6
Computer/information scientist	4.3	16.1	92.6
Postsecondary teacher, computer science	S	5.6	92.6
Mathematical scientist	1.6	4.5	87.5
Mathematical scientist	3.4	6.0	89.2
Postsecondary teacher, mathematics/statistics	0.4	3.5	86.5
Physical scientist	2.3	2.7	86.2
Chemist, except biochemist	4.1	3.0	84.1
Earth/atmostpheric/ocean scientist	2.3	2.6	84.3
Physicist/astronomer	1.5	2.8	88.2
Postsecondary teacher, chemistry	0.8	1.1	87.5
Postsecondary teacher, physics	0.6	3.2	86.3
Postsecondary teacher, other physical sciences	S	2.9	88.7
Other physical scientist	6.4	5.9	92.1
Psychologist	0.8	3.6	91.4
Psychologist	0.9	3.4	91.7
Postsecondary teacher, psychology	0.7	4.0	90.4
Social scientist	1.4	2.6	88.1
Economist	0.8	2.4	88.5
Political scientist	S	S	73.5
Postsecondary teacher, economics	1.1	2.4	87.8
Postsecondary teacher, political science	S	2.8	89.7
Postsecondary teacher, sociology	0.7	2.5	86.5
Postsecondary teacher, other social sciences	0.8	3.3	90.5
Sociologist/anthropologist	5.8	2.1	85.4
Other social scientist	3.3	2.8	91.7
Engineering occupations	2.7	3.5	88.8
Aerospace/aeronautical/astronautical engineer	2.6	7.3	81.5
Chemical engineer	3.2	2.3	85.9
Civil/architectural/sanitary engineer	1.7	3.1	86.7
Electrical engineer	3.7	4.1	93.2
Materials/metallurgical engineer	3.8	9.7	88.0
Mechanical engineer	3.0	3.2	88.3
Postsecondary teacher, engineering	0.5	1.4	89.1
Other engineer	3.6	4.3	88.1
Science and engineering-related occupations	2.0	6.7	89.2
Health-related occupation, except postsecondary teacher	2.3	10.1	89.9
Postsecondary teacher, health and related sciences	0.5	2.6	89.0
S&E manager	1.7	3.8	90.3
S&E precollege teacher	3.1	13.8	88.0
S&E technician/technologist	9.1	21.8	82.0

TABLE 28. Selected employment characteristics of doctoral scientists and engineers, by occupation: 2003
(Percent)

Occupation	Unemployment rate	Involuntarily-out-of-field rate	Labor force participation rate
Other S&E-related occupation	S	22.5	93.6
Non-science and engineering occupations	3.0	8.9	87.3
Arts/humanities-related occupation	1.7	11.6	84.3
Management-related occupation	3.8	10.9	89.1
Non-S&E manager	2.5	4.1	88.0
Non-S&E postsecondary teacher	1.1	3.8	88.1
Non-S&E precollege/other teacher	6.3	17.9	82.6
Sales/marketing occupation	4.7	23.5	89.8
Social service-related occupation	1.8	11.0	88.1
Other non-S&E occupation	5.4	19.6	80.7

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

NOTES: If the respondent was not employed during the survey reference period, occupation of last job was reported. Excludes estimated 291 individuals who reported never having worked so could not be classified by occupation. Unemployment rate (R_U) = U/(E+U). Involuntarily-out-of field rate is the percentage of employed individuals who reported working part time exclusively because suitable full-time work was not available and/or reported working in an area not related to the first doctoral degree (in their principal job) at least partially because suitable work in the field was not available. Labor force is defined as those employed (E) plus those unemployed and seeking work (U). Population (P) is defined as all S&E doctorate holders under age 76, residing in the United States during the week of October 1, 2003, who earned doctorates from U.S. institutions. Labor force participation rate (R_{LF}) = (E+U)/P.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 29. Doctoral scientists and engineers, by occupation and sex: 2003

Occupation	Total	Male	Female	Total	Male	Female
	Number			Percent		
All occupations	685,010	501,110	183,900	100.0	73.2	26.8
Science occupations	405,330	286,130	119,200	100.0	70.6	29.4
Biological, agricultural, and other life scientist	120,900	82,340	38,560	100.0	68.1	31.9
Agricultural/food scientist	9,930	8,390	1,540	100.0	84.5	15.5
Biochemist/biophysicist	16,140	11,110	5,030	100.0	68.9	31.1
Biological scientist	21,430	13,630	7,800	100.0	63.6	36.4
Forestry/conservation scientist	1,700	1,380	320	100.0	81.1	18.9
Medical scientist	32,170	20,350	11,820	100.0	63.3	36.7
Postsecondary teacher, agricultural/other natural sciences	5,270	4,450	830	100.0	84.3	15.7
Postsecondary teacher, biological sciences	27,990	19,280	8,710	100.0	68.9	31.1
Other biological/agricultural/life scientist	6,250	3,740	2,510	100.0	59.8	40.2
Computer and information scientist	38,460	33,080	5,380	100.0	86.0	14.0
Computer/information scientist	30,210	26,030	4,180	100.0	86.2	13.8
Postsecondary teacher, computer science	8,250	7,050	1,200	100.0	85.5	14.5
Mathematical scientist	26,080	20,800	5,270	100.0	79.8	20.2
Mathematical scientist	10,250	8,140	2,110	100.0	79.4	20.6
Postsecondary teacher, mathematics/statistics	15,830	12,660	3,170	100.0	80.0	20.0
Physical scientist	87,590	74,710	12,880	100.0	85.3	14.7
Chemist, except biochemist	29,400	24,370	5,030	100.0	82.9	17.1
Earth/atmospheric/ocean scientist	10,930	9,630	1,310	100.0	88.1	11.9
Physicist/astronomer	15,710	14,590	1,120	100.0	92.9	7.1
Postsecondary teacher, chemistry	13,140	10,500	2,640	100.0	79.9	20.1
Postsecondary teacher, physics	9,110	8,060	1,050	100.0	88.4	11.6
Postsecondary teacher, other physical sciences	6,820	5,570	1,250	100.0	81.7	18.3
Other physical scientist	2,470	1,990	480	100.0	80.6	19.4
Psychologist	74,060	35,220	38,830	100.0	47.6	52.4
Psychologist	54,540	24,740	29,800	100.0	45.4	54.6
Postsecondary teacher, psychology	19,520	10,480	9,040	100.0	53.7	46.3
Social scientist	58,250	39,970	18,280	100.0	68.6	31.4
Economist	8,790	6,940	1,850	100.0	78.9	21.1
Political scientist	2,000	1,470	520	100.0	73.8	26.2
Postsecondary teacher, economics	9,690	8,120	1,570	100.0	83.8	16.2
Postsecondary teacher, political science	9,470	7,110	2,360	100.0	75.0	25.0
Postsecondary teacher, sociology	8,320	5,060	3,260	100.0	60.8	39.2
Postsecondary teacher, other social sciences	10,030	6,080	3,950	100.0	60.7	39.3
Sociologist/anthropologist	5,130	2,700	2,440	100.0	52.6	47.4
Other social scientist	4,820	2,490	2,330	100.0	51.7	48.3
Engineering occupations	89,160	81,310	7,850	100.0	91.2	8.8
Aerospace/aeronautical/astronautical engineer	5,110	4,880	220	100.0	95.6	4.4
Chemical engineer	8,430	7,520	920	100.0	89.1	10.9
Civil/architectural/sanitary engineer	4,430	4,230	200	100.0	95.6	4.4
Electrical engineer	18,430	17,000	1,440	100.0	92.2	7.8
Materials/metallurgical engineer	1,580	1,270	310	100.0	80.6	19.4
Mechanical engineer	10,000	9,410	590	100.0	94.1	5.9
Postsecondary teacher, engineering	19,600	18,070	1,530	100.0	92.2	7.8
Other engineer	21,570	18,920	2,650	100.0	87.7	12.3
Science and engineering-related occupations	73,970	50,370	23,600	100.0	68.1	31.9
Health-related occupation, except postsecondary teacher	19,420	11,730	7,690	100.0	60.4	39.6
Postsecondary teacher, health and related sciences	19,560	9,900	9,660	100.0	50.6	49.4
S&E manager	25,980	21,700	4,290	100.0	83.5	16.5
S&E precollege teacher	3,800	2,580	1,220	100.0	68.0	32.0
S&E technician/technologist	4,780	4,100	670	100.0	85.9	14.1
Other S&E-related occupation	440	360	80	100.0	82.1	17.9

TABLE 29. Doctoral scientists and engineers, by occupation and sex: 2003

Occupation	Total	Male	Female	Total	Male	Female
	Number			Percent		
Non-science and engineering occupations	116,540	83,300	33,240	100.0	71.5	28.5
Arts/humanities-related occupation	6,280	3,250	3,040	100.0	51.7	48.3
Management-related occupation	17,630	12,420	5,220	100.0	70.4	29.6
Non-S&E manager	51,680	40,590	11,090	100.0	78.5	21.5
Non-S&E postsecondary teacher	13,620	8,540	5,080	100.0	62.7	37.3
Non-S&E precollege/other teacher	3,100	1,360	1,740	100.0	44.0	56.0
Sales/marketing occupation	9,130	7,180	1,950	100.0	78.7	21.3
Social service-related occupation	3,920	2,280	1,640	100.0	58.2	41.8
Other non-S&E occupation	10,650	7,200	3,440	100.0	67.7	32.3

S&E = science and engineering.

NOTES: If respondent was not employed during survey reference period, occupation of last job was reported. Numbers are rounded to nearest 10. Detail may not add to total because of rounding. Excludes estimated 291 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 30. Doctoral scientists and engineers, by occupation and race/ethnicity: 2003 (corrected January 2011)

Occupation	Total	American Indian/Alaskan Native	Asian	Black	Hispanic	White	Other race[a]
	Number						
All occupations	685,010	1,120	104,600	17,230	17,590	536,320	8,140
Science occupations	405,330	710	56,880	9,750	11,080	321,910	5,000
Biological, agricultural, and other life scientist	120,900	190	19,790	2,300	3,390	93,680	1,540
Agricultural/food scientist	9,930	S	1,360	220	330	7,870	150
Biochemist/biophysicist	16,140	S	4,180	150	240	11,290	250
Biological scientist	21,430	S	3,700	320	630	16,400	360
Forestry/conservation scientist	1,700	S	S	S	S	1,600	S
Medical scientist	32,170	S	6,730	650	880	23,660	220
Postsecondary teacher, agricultural/other natural sciences	5,270	S	250	120	210	4,540	130
Postsecondary teacher, biological sciences	27,990	60	2,160	740	880	23,820	330
Other biological/agricultural/life scientist	6,250	S	1,360	80	200	4,500	70
Computer and information scientist	38,460	S	12,240	550	610	24,560	450
Computer/information scientist	30,210	S	10,420	290	410	18,720	340
Postsecondary teacher, computer science	8,250	S	1,830	260	190	5,840	110
Mathematical scientist	26,080	S	5,050	600	730	19,520	150
Mathematical scientist	10,250	S	2,590	300	280	7,000	70
Postsecondary teacher, mathematics/statistics	15,830	S	2,460	300	460	12,510	80
Physical scientist	87,590	150	12,980	1,210	1,970	70,330	950
Chemist, except biochemist	29,400	100	6,820	400	590	21,240	240
Earth/atmospheric/ocean scientist	10,930	S	1,190	110	310	9,170	150
Physicist/astronomer	15,710	S	2,300	120	230	12,970	100
Postsecondary teacher, chemistry	13,140	S	840	340	420	11,370	150
Postsecondary teacher, physics	9,110	S	1,090	110	230	7,610	80
Postsecondary teacher, other physical sciences	6,820	S	310	80	130	6,070	210
Other physical scientist	2,470	S	440	50	S	1,900	S
Psychologist	74,060	150	1,740	2,460	2,600	65,980	1,130
Psychologist	54,540	110	1,180	1,690	1,770	49,050	750
Postsecondary teacher, psychology	19,520	S	560	770	830	16,930	380
Social scientist	58,250	150	5,070	2,630	1,780	47,850	780
Economist	8,790	S	1,260	220	360	6,830	120
Political scientist	2,000	S	140	70	50	1,630	100
Postsecondary teacher, economics	9,690	S	1,450	430	140	7,590	S
Postsecondary teacher, political science	9,470	S	400	570	260	8,120	110
Postsecondary teacher, sociology	8,320	S	460	590	220	6,960	80
Postsecondary teacher, other social sciences	10,030	110	850	280	520	8,090	190
Sociologist/anthropologist	5,130	S	160	200	120	4,580	70
Other social scientist	4,820	S	340	260	110	4,050	70
Engineering occupations	89,160	50	25,710	1,420	2,120	58,990	870
Aerospace/aeronautical/astronautical engineer	5,110	S	860	S	60	4,080	60
Chemical engineer	8,430	S	2,720	170	200	5,310	S
Civil/architectural/sanitary engineer	4,430	S	1,370	80	220	2,710	50
Electrical engineer	18,430	S	6,950	260	280	10,700	230
Materials/metallurgical engineer	1,580	S	450	S	S	1,090	S
Mechanical engineer	10,000	S	3,780	80	150	5,890	100
Postsecondary teacher, engineering	19,600	S	3,830	660	700	14,140	270
Other engineer	21,570	S	5,750	130	480	15,060	120
Science and engineering-related occupations	73,970	80	9,800	2,060	1,530	59,570	930
Health-related occupation, except postsecondary teacher	19,420	S	2,640	680	540	15,160	370
Postsecondary teacher, health and related sciences	19,560	S	1,760	780	430	16,360	210
S&E manager	25,980	S	3,700	400	460	21,150	280
S&E precollege teacher	3,800	S	240	200	80	3,220	S
S&E technician/technologist	4,780	S	1,370	S	S	3,370	S

TABLE 30. Doctoral scientists and engineers, by occupation and race/ethnicity: 2003 (corrected January 2011)

Occupation	Total	American Indian/Alaskan Native	Asian	Black	Hispanic	White	Other race[a]
Other S&E-related occupation	440	S	90	S	S	310	S
Non-science and engineering occupations	116,540	270	12,220	4,010	2,860	95,840	1,340
Arts/humanities-related occupation	6,560	S	510	150	70	5,800	S
Management-related occupation	17,630	50	2,890	550	450	13,470	230
Non-S&E manager	51,680	60	5,220	1,850	1,150	42,990	410
Non-S&E postsecondary teacher	13,620	60	1,100	670	540	11,080	160
Non-S&E precollege/other teacher	3,100	S	150	120	140	2,590	90
Sales/marketing occupation	9,130	S	1,340	100	180	7,350	110
Social service-related occupation	3,920	S	290	270	130	3,110	90
Other non-S&E occupation	10,900	S	710	310	210	9,450	220
				Percent			
All occupations	100.0	0.2	15.3	2.5	2.6	78.3	1.2
Science occupations	100.0	0.2	14.0	2.4	2.7	79.4	1.2
Biological, agricultural, and other life scientist	100.0	0.2	16.4	1.9	2.8	77.5	1.3
Agricultural/food scientist	100.0	S	13.7	2.3	3.3	79.2	1.6
Biochemist/biophysicist	100.0	S	25.9	0.9	1.5	70.0	1.6
Biological scientist	100.0	S	17.3	1.5	2.9	76.5	1.7
Forestry/conservation scientist	100.0	S	S	S	S	93.9	S
Medical scientist	100.0	S	20.9	2.0	2.7	73.5	0.7
Postsecondary teacher, agricultural/other natural sciences	100.0	S	4.8	2.2	4.1	86.0	2.4
Postsecondary teacher, biological sciences	100.0	0.2	7.7	2.6	3.2	85.1	1.2
Other biological/agricultural/life scientist	100.0	S	21.8	1.3	3.1	72.1	1.1
Computer and information scientist	100.0	S	31.8	1.4	1.6	63.9	1.2
Computer/information scientist	100.0	S	34.5	1.0	1.4	62.0	1.1
Postsecondary teacher, computer science	100.0	S	22.1	3.2	2.4	70.8	1.3
Mathematical scientist	100.0	S	19.4	2.3	2.8	74.8	0.6
Mathematical scientist	100.0	S	25.3	2.9	2.7	68.4	0.7
Postsecondary teacher, mathematics/statistics	100.0	S	15.6	1.9	2.9	79.0	0.5
Physical scientist	100.0	0.2	14.8	1.4	2.2	80.3	1.1
Chemist, except biochemist	100.0	0.4	23.2	1.4	2.0	72.3	0.8
Earth/atmospheric/ocean scientist	100.0	S	10.9	1.0	2.9	83.9	1.4
Physicist/astronomer	100.0	S	14.6	0.8	1.4	82.5	0.6
Postsecondary teacher, chemistry	100.0	S	6.4	2.6	3.2	86.5	1.1
Postsecondary teacher, physics	100.0	S	11.9	1.2	2.5	83.5	0.8
Postsecondary teacher, other physical sciences	100.0	S	4.5	1.2	1.9	89.1	3.0
Other physical scientist	100.0	S	17.7	2.1	S	76.8	S
Psychologist	100.0	0.2	2.4	3.3	3.5	89.1	1.5
Psychologist	100.0	0.2	2.2	3.1	3.2	89.9	1.4
Postsecondary teacher, psychology	100.0	S	2.9	4.0	4.3	86.8	2.0
Social scientist	100.0	0.3	8.7	4.5	3.1	82.1	1.3
Economist	100.0	S	14.3	2.5	4.1	77.7	1.4
Political scientist	100.0	S	6.9	3.7	2.6	81.7	5.0
Postsecondary teacher, economics	100.0	S	15.0	4.5	1.5	78.3	S
Postsecondary teacher, political science	100.0	S	4.3	6.0	2.7	85.7	1.1
Postsecondary teacher, sociology	100.0	S	5.6	7.1	2.6	83.6	1.0
Postsecondary teacher, other social sciences	100.0	1.1	8.5	2.8	5.2	80.6	1.9
Sociologist/anthropologist	100.0	S	3.1	4.0	2.3	89.3	1.3
Other social scientist	100.0	S	7.1	5.3	2.3	84.0	1.4
Engineering occupations	100.0	0.1	28.8	1.6	2.4	66.2	1.0
Aerospace/aeronautical/astronautical engineer	100.0	S	16.9	S	1.2	80.0	1.2
Chemical engineer	100.0	S	32.2	2.0	2.4	63.0	S
Civil/architectural/sanitary engineer	100.0	S	31.0	1.7	4.9	61.1	1.2

TABLE 30. Doctoral scientists and engineers, by occupation and race/ethnicity: 2003 (corrected January 2011)

Occupation	Total	American Indian/Alaskan Native	Asian	Black	Hispanic	White	Other race[a]
Electrical engineer	100.0	S	37.7	1.4	1.5	58.0	1.2
Materials/metallurgical engineer	100.0	S	28.5	S	S	69.2	S
Mechanical engineer	100.0	S	37.8	0.8	1.5	58.9	1.0
Postsecondary teacher, engineering	100.0	S	19.5	3.4	3.6	72.1	1.4
Other engineer	100.0	S	26.7	0.6	2.2	69.8	0.6
Science and engineering-related occupations	100.0	0.1	13.2	2.8	2.1	80.5	1.3
Health-related occupation, except postsecondary teacher	100.0	S	13.6	3.5	2.8	78.1	1.9
Postsecondary teacher, health and related sciences	100.0	S	9.0	4.0	2.2	83.7	1.1
S&E manager	100.0	S	14.2	1.5	1.8	81.4	1.1
S&E precollege teacher	100.0	S	6.4	5.2	2.0	84.9	S
S&E technician/technologist	100.0	S	28.6	S	S	70.5	S
Other S&E-related occupation	100.0	S	20.7	S	S	71.0	S
Non-science and engineering occupations	100.0	0.2	10.5	3.4	2.5	82.2	1.1
Arts/humanities-related occupation	100.0	S	7.8	2.2	1.1	88.4	S
Management-related occupation	100.0	0.3	16.4	3.1	2.5	76.4	1.3
Non-S&E manager	100.0	0.1	10.1	3.6	2.2	83.2	0.8
Non-S&E postsecondary teacher	100.0	0.5	8.1	4.9	4.0	81.4	1.1
Non-S&E precollege/other teacher	100.0	S	4.9	3.9	4.4	83.6	2.9
Sales/marketing occupation	100.0	S	14.7	1.1	2.0	80.5	1.2
Social service-related occupation	100.0	S	7.3	6.9	3.2	79.3	2.4
Other non-S&E occupation	100.0	S	6.5	2.8	2.0	86.7	2.0

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding. Excludes estimated 291 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 31. Doctoral scientists and engineers employed as postdocs, by occupation: 2003

Occupation	Number	Percent
Total in postdoc [a]	19,780	100.0
Science occupations	17,940	90.7
Biological, agricultural, and other life scientist	12,380	62.6
Agricultural/food scientist	390	2.0
Biochemist/biophysicist	3,210	16.2
Biological scientist	3,700	18.7
Forestry/conservation scientist	110	0.6
Medical scientist	3,750	19.0
Postsecondary teacher, agricultural/other natural sciences	S	S
Postsecondary teacher, biological sciences	200	1.0
Other biological/agricultural/life scientist	1,010	5.1
Computer and information scientist	180	0.9
Computer/information scientist	180	0.9
Postsecondary teacher, computer science	S	S
Mathematical scientist	430	2.2
Mathematical scientist	140	0.7
Postsecondary teacher, mathematics/statistics	290	1.5
Physical scientist	2,950	14.9
Chemist, except biochemist	960	4.9
Earth/atmospheric/ocean scientist	390	2.0
Physicist/astronomer	1,320	6.7
Postsecondary teacher, chemistry	S	S
Postsecondary teacher, physics	S	S
Postsecondary teacher, other physical sciences	S	S
Other physical scientist	170	0.9
Psychologist	1,470	7.4
Psychologist	1,330	6.7
Postsecondary teacher, psychology	140	0.7
Social scientist	540	2.7
Economist	100	0.5
Political scientist	S	S
Postsecondary teacher, economics	50	0.3
Postsecondary teacher, political science	S	S
Postsecondary teacher, sociology	S	S
Postsecondary teacher, other social sciences	50	0.3
Sociologist/anthropologist	240	1.2
Other social scientist	60	0.3
Engineering occupations	1,020	5.2
Aerospace/aeronautical/astronautical engineer	S	S
Chemical engineer	60	0.3
Civil/architectural/sanitary engineer	S	S
Electrical engineer	100	0.5
Materials/metallurgical engineer		
Mechanical engineer	140	0.7
Postsecondary teacher, engineering	60	0.3
Other engineer	610	3.1
Science and engineering-related occupations	740	3.7
Health-related occupation, except postsecondary teacher	480	2.4
Postsecondary teacher, health and related sciences	180	0.9
S&E manager	S	S
S&E precollege teacher	S	S
S&E technician/technologist	60	0.3
Other S&E-related occupation	S	S
Non-science and engineering occupations	70	0.4

TABLE 31. Doctoral scientists and engineers employed as postdocs, by occupation: 2003

Occupation	Number	Percent
Arts/humanities-related occupation	S	S
Management-related occupation	S	S
Non-S&E manager	S	S
Non-S&E postsecondary teacher	S	S
Non-S&E precollege/other teacher	S	S
Sales/marketing occupation	S	S
Social service-related occupation	S	S
Other non-S&E occupation	S	S

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

[a] Postdoc is a temporary position awarded in academe, industry, or government primarily for gaining additional education and training in research.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)

Occupation	Total			Hispanic			White			All others[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	Number											
All occupations	593,300	432,150	161,150	16,220	10,350	5,880	457,870	333,450	124,420	119,210	88,360	30,860
Science occupations	352,960	248,120	104,840	10,290	6,270	4,020	276,920	195,680	81,230	65,750	46,160	19,590
Biological, agricultural, and other life scientist	104,650	71,100	33,550	3,140	1,950	1,190	79,770	55,440	24,330	21,750	13,720	8,030
Agricultural/food scientist	8,200	6,820	1,380	270	200	70	6,400	5,370	1,020	1,540	1,250	290
Biochemist/biophysicist	13,920	9,800	4,120	230	160	70	9,610	7,180	2,430	4,080	2,460	1,630
Biological scientist	18,390	11,860	6,530	570	300	280	13,800	9,440	4,360	4,010	2,130	1,890
Forestry/conservation scientist	1,390	1,090	300	S	S	S	1,280	1,010	270	80	60	S
Medical scientist	28,860	18,210	10,650	790	480	310	20,920	13,020	7,890	7,160	4,710	2,450
Postsecondary teacher, agricultural/other natural sciences	4,410	3,640	780	190	160	S	3,770	3,100	670	450	370	80
Postsecondary teacher, biological sciences	24,280	16,590	7,690	880	560	320	20,380	14,090	6,290	3,020	1,940	1,080
Other biological/agricultural/life scientist	5,200	3,100	2,100	190	70	110	3,610	2,220	1,390	1,400	810	590
Computer and information scientist	34,410	29,750	4,660	600	500	100	21,420	18,880	2,550	12,380	10,370	2,010
Computer/information scientist	26,770	23,220	3,550	410	330	80	16,130	14,350	1,780	10,230	8,550	1,680
Postsecondary teacher, computer science	7,640	6,530	1,110	190	180	S	5,290	4,520	760	2,160	1,830	330
Mathematical scientist	22,460	17,840	4,620	630	520	110	16,470	13,300	3,170	5,370	4,020	1,350
Mathematical scientist	8,830	6,990	1,830	240	190	50	5,810	4,710	1,100	2,770	2,100	680
Postsecondary teacher, mathematics/statistics	13,640	10,840	2,790	390	330	60	10,650	8,590	2,070	2,600	1,930	670
Physical scientist	73,730	62,730	11,010	1,810	1,470	340	58,300	50,150	8,150	13,630	11,110	2,520
Chemist, except biochemist	23,700	19,580	4,120	530	400	140	16,550	14,060	2,490	6,620	5,130	1,500
Earth/atmospheric/ocean scientist	9,010	7,850	1,160	270	240	S	7,430	6,470	960	1,310	1,140	170
Physicist/astronomer	13,650	12,670	980	220	200	S	11,230	10,500	730	2,210	1,980	230
Postsecondary teacher, chemistry	11,400	9,160	2,250	410	330	80	9,740	7,860	1,880	1,250	970	280
Postsecondary teacher, physics	7,810	6,910	900	230	210	S	6,410	5,680	730	1,180	1,030	150
Postsecondary teacher, other physical sciences	6,020	4,850	1,170	130	100	S	5,290	4,240	1,060	600	520	80
Other physical scientist	2,130	1,710	430	S	S	S	1,650	1,340	310	460	350	110
Psychologist	67,110	32,320	34,790	2,470	830	1,650	59,570	29,770	29,800	5,070	1,730	3,340
Psychologist	49,600	22,900	26,690	1,700	540	1,150	44,500	21,200	23,300	3,400	1,160	2,240
Postsecondary teacher, psychology	17,510	9,420	8,100	780	280	490	15,070	8,570	6,500	1,670	560	1,110
Social scientist	50,590	34,370	16,220	1,640	1,010	630	41,400	28,160	13,240	7,550	5,200	2,350
Economist	7,720	6,110	1,600	330	280	S	5,990	4,750	1,240	1,390	1,080	310
Political scientist	1,450	1,060	390	S	S	S	1,250	940	310	170	100	80
Postsecondary teacher, economics	8,410	7,080	1,340	120	110	S	6,550	5,560	990	1,740	1,400	340
Postsecondary teacher, political science	8,470	6,250	2,220	250	130	130	7,280	5,480	1,800	940	640	300
Postsecondary teacher, sociology	7,140	4,170	2,970	220	100	120	5,910	3,390	2,520	1,010	680	330
Postsecondary teacher, other social sciences	9,010	5,280	3,730	490	290	200	7,180	4,140	3,040	1,340	850	490
Sociologist/anthropologist	4,130	2,260	1,870	90	S	S	3,680	2,040	1,640	350	170	180

TABLE 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)

Occupation	Total			Hispanic			White			All others[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Other social scientist	4,280	2,180	2,090	110	S	70	3,560	1,870	1,690	610	280	330
Engineering occupations	77,000	70,040	6,960	1,950	1,710	240	49,340	45,210	4,130	25,710	23,120	2,590
Aerospace/aeronautical/astronautical engineer	4,050	3,880	180	60	S	S	3,140	3,020	110	860	820	S
Chemical engineer	7,010	6,300	700	160	160	S	4,310	3,970	340	2,540	2,170	370
Civil/architectural/sanitary engineer	3,780	3,610	160	210	210	S	2,280	2,140	130	1,290	1,260	S
Electrical engineer	16,550	15,240	1,310	260	210	S	9,290	8,800	490	7,000	6,220	780
Materials/metallurgical engineer	1,340	1,120	220	S	S	S	850	740	110	470	380	90
Mechanical engineer	8,570	8,020	540	150	140	S	4,870	4,650	220	3,540	3,230	310
Postsecondary teacher, engineering	17,380	15,910	1,470	640	570	70	12,100	10,960	1,140	4,640	4,370	270
Other engineer	18,330	15,970	2,360	450	370	80	12,510	10,920	1,590	5,380	4,680	700
Science and engineering-related occupations	64,650	43,700	20,940	1,430	830	600	51,390	34,930	16,460	11,830	7,940	3,880
Health-related occupation, except postsecondary teacher	17,050	10,280	6,770	490	280	210	13,040	8,010	5,030	3,530	1,990	1,530
Postsecondary teacher, health and related sciences	17,330	8,710	8,620	410	150	260	14,350	7,190	7,160	2,580	1,370	1,210
S&E manager	23,060	19,070	3,980	450	350	110	18,660	15,510	3,150	3,950	3,220	730
S&E precollege teacher	3,240	2,180	1,050	70	S	S	2,680	1,820	860	490	320	170
S&E technician/technologist	3,560	3,090	460	S	S	S	2,380	2,140	240	1,160	950	210
Other S&E-related occupation	410	360	50	S	S	S	290	260	S	120	100	S
Non-science and engineering occupations	98,700	70,290	28,410	2,550	1,530	1,020	80,220	57,620	22,600	15,920	11,130	4,790
Arts/humanities-related occupation	5,410	2,980	2,440	70	S	S	4,770	2,650	2,110	570	300	280
Management-related occupation	15,120	10,520	4,600	350	230	120	11,340	7,890	3,450	3,430	2,400	1,030
Non-S&E manager	44,320	34,450	9,870	1,060	720	340	36,570	28,630	7,940	6,690	5,100	1,590
Non-S&E postsecondary teacher	11,860	7,380	4,470	520	270	250	9,470	6,060	3,410	1,880	1,060	820
Non-S&E precollege/other teacher	2,400	1,100	1,310	90	50	S	1,970	890	1,090	340	160	180
Sales/marketing occupation	7,810	6,190	1,630	170	120	S	6,280	5,020	1,260	1,370	1,040	320
Social service-related occupation	3,390	1,880	1,510	120	S	70	2,680	1,490	1,190	600	340	250
Other non-S&E occupation	8,380	5,790	2,590	180	70	110	7,150	4,990	2,160	1,060	730	320
	Percent											
All occupations	100.0	72.8	27.2	100.0	63.8	36.2	100.0	72.8	27.2	100.0	74.1	25.9
Science occupations	100.0	70.3	29.7	100.0	61.0	39.0	100.0	70.7	29.3	100.0	70.2	29.8
Biological, agricultural, and other life scientist	100.0	67.9	32.1	100.0	62.0	38.0	100.0	69.5	30.5	100.0	63.1	36.9
Agricultural/food scientist	100.0	83.1	16.9	100.0	73.4	26.6	100.0	84.0	16.0	100.0	81.1	18.9
Biochemist/biophysicist	100.0	70.4	29.6	100.0	71.2	28.8	100.0	74.7	25.3	100.0	60.2	39.8
Biological scientist	100.0	64.5	35.5	100.0	51.7	48.3	100.0	68.4	31.6	100.0	53.0	47.0
Forestry/conservation scientist	100.0	78.4	21.6	100.0	S	S	100.0	78.6	21.4	100.0	73.6	S
Medical scientist	100.0	63.1	36.9	100.0	60.9	39.1	100.0	62.3	37.7	100.0	65.8	34.2
Postsecondary teacher, agricultural/other natural sciences	100.0	82.4	17.6	100.0	84.0	S	100.0	82.3	17.7	100.0	82.2	17.8
Postsecondary teacher, biological sciences	100.0	68.3	31.7	100.0	63.5	36.5	100.0	69.1	30.9	100.0	64.3	35.7
Other biological/agricultural/life scientist	100.0	59.6	40.4	100.0	38.6	61.4	100.0	61.4	38.6	100.0	57.8	42.2
Computer and information scientist	100.0	86.5	13.5	100.0	83.3	16.7	100.0	88.1	11.9	100.0	83.8	16.2

TABLE 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)

Occupation	Total			Hispanic			White			All others[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Computer/information scientist	100.0	86.8	13.2	100.0	79.9	20.1	100.0	88.9	11.1	100.0	83.6	16.4
Postsecondary teacher, computer science	100.0	85.4	14.6	100.0	90.4	S	100.0	85.6	14.4	100.0	84.7	15.3
Mathematical scientist	100.0	79.4	20.6	100.0	82.3	17.7	100.0	80.8	19.2	100.0	74.9	25.1
Mathematical scientist	100.0	79.2	20.8	100.0	77.3	22.7	100.0	81.1	18.9	100.0	75.5	24.5
Postsecondary teacher, mathematics/statistics	100.0	79.5	20.5	100.0	85.4	14.6	100.0	80.6	19.4	100.0	74.3	25.7
Physical scientist	100.0	85.1	14.9	100.0	81.2	18.8	100.0	86.0	14.0	100.0	81.5	18.5
Chemist, except biochemist	100.0	82.6	17.4	100.0	74.3	25.7	100.0	85.0	15.0	100.0	77.4	22.6
Earth/atmospheric/ocean scientist	100.0	87.1	12.9	100.0	87.4	S	100.0	87.1	12.9	100.0	87.3	12.7
Physicist/astronomer	100.0	92.8	7.2	100.0	89.5	S	100.0	93.5	6.5	100.0	89.5	10.5
Postsecondary teacher, chemistry	100.0	80.3	19.7	100.0	79.5	20.5	100.0	80.7	19.3	100.0	77.6	22.4
Postsecondary teacher, physics	100.0	88.5	11.5	100.0	89.8	S	100.0	88.6	11.4	100.0	87.4	12.6
Postsecondary teacher, other physical sciences	100.0	80.6	19.4	100.0	75.4	S	100.0	80.0	20.0	100.0	86.3	13.7
Other physical scientist	100.0	80.0	20.0	100.0	S	S	100.0	81.5	18.5	100.0	75.4	24.6
Psychologist	100.0	48.2	51.8	100.0	33.4	66.6	100.0	50.0	50.0	100.0	34.1	65.9
Psychologist	100.0	46.2	53.8	100.0	32.0	68.0	100.0	47.6	52.4	100.0	34.2	65.8
Postsecondary teacher, psychology	100.0	53.8	46.2	100.0	36.5	63.5	100.0	56.9	43.1	100.0	33.8	66.2
Social scientist	100.0	67.9	32.1	100.0	61.8	38.2	100.0	68.0	32.0	100.0	68.9	31.1
Economist	100.0	79.3	20.7	100.0	85.7	S	100.0	79.3	20.7	100.0	77.6	22.4
Political scientist	100.0	72.8	27.2	100.0	S	S	100.0	75.4	24.6	100.0	56.7	43.3
Postsecondary teacher, economics	100.0	84.1	15.9	100.0	92.4	S	100.0	84.9	15.1	100.0	80.6	19.4
Postsecondary teacher, political science	100.0	73.8	26.2	100.0	50.0	50.0	100.0	75.3	24.7	100.0	68.5	31.5
Postsecondary teacher, sociology	100.0	58.4	41.6	100.0	46.5	53.5	100.0	57.3	42.7	100.0	67.4	32.6
Postsecondary teacher, other social sciences	100.0	58.6	41.4	100.0	59.5	40.5	100.0	57.6	42.4	100.0	63.4	36.6
Sociologist/anthropologist	100.0	54.7	45.3	100.0	S	S	100.0	55.4	44.6	100.0	49.2	50.8
Other social scientist	100.0	51.1	48.9	100.0	S	65.3	100.0	52.4	47.6	100.0	45.8	54.2
Engineering occupations	100.0	91.0	9.0	100.0	87.7	12.3	100.0	91.6	8.4	100.0	89.9	10.1
Aerospace/aeronautical/astronautical engineer	100.0	95.6	4.4	100.0	S	S	100.0	96.4	3.6	100.0	95.2	S
Chemical engineer	100.0	89.9	10.1	100.0	97.5	S	100.0	92.2	7.8	100.0	85.6	14.4
Civil/architectural/sanitary engineer	100.0	95.7	4.3	100.0	100.0	S	100.0	94.2	5.8	100.0	97.6	S
Electrical engineer	100.0	92.1	7.9	100.0	82.2	S	100.0	94.8	5.2	100.0	88.9	11.1
Materials/metallurgical engineer	100.0	83.8	16.2	100.0	S	S	100.0	86.9	13.1	100.0	80.4	19.6
Mechanical engineer	100.0	93.6	6.4	100.0	91.9	S	100.0	95.5	4.5	100.0	91.2	8.8
Postsecondary teacher, engineering	100.0	91.5	8.5	100.0	89.6	10.4	100.0	90.6	9.4	100.0	94.2	5.8
Other engineer	100.0	87.1	12.9	100.0	82.9	17.1	100.0	87.3	12.7	100.0	87.0	13.0
Science and engineering-related occupations	100.0	67.6	32.4	100.0	58.0	42.0	100.0	68.0	32.0	100.0	67.2	32.8
Health-related occupation, except postsecondary teacher	100.0	60.3	39.7	100.0	57.3	42.7	100.0	61.4	38.6	100.0	56.5	43.5
Postsecondary teacher, health and related sciences	100.0	50.3	49.7	100.0	37.7	62.3	100.0	50.1	49.9	100.0	53.1	46.9
S&E manager	100.0	82.7	17.3	100.0	76.7	23.3	100.0	83.1	16.9	100.0	81.5	18.5
S&E precollege teacher	100.0	67.5	32.5	100.0	S	S	100.0	67.8	32.2	100.0	65.1	34.9
S&E technician/technologist	100.0	87.0	13.0	100.0	S	S	100.0	90.0	10.0	100.0	81.6	18.4

TABLE 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)

Occupation	Total			Hispanic			White			All others[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Other S&E-related occupation	100.0	87.8	12.2	100.0	S	S	100.0	91.6	S	100.0	78.7	S
Non-science and engineering occupations	100.0	71.2	28.8	100.0	60.1	39.9	100.0	71.8	28.2	100.0	69.9	30.1
Arts/humanities-related occupation	100.0	55.0	45.0	100.0	S	S	100.0	55.7	44.3	100.0	51.6	48.4
Management-related occupation	100.0	69.6	30.4	100.0	65.1	34.9	100.0	69.6	30.4	100.0	70.0	30.0
Non-S&E manager	100.0	77.7	22.3	100.0	68.0	32.0	100.0	78.3	21.7	100.0	76.2	23.8
Non-S&E postsecondary teacher	100.0	62.3	37.7	100.0	51.6	48.4	100.0	64.0	36.0	100.0	56.4	43.6
Non-S&E precollege/other teacher	100.0	45.6	54.4	100.0	56.5	S	100.0	44.9	55.1	100.0	46.8	53.2
Sales/marketing occupation	100.0	79.2	20.8	100.0	71.6	S	100.0	80.0	20.0	100.0	76.4	23.6
Social service-related occupation	100.0	55.5	44.5	100.0	S	57.6	100.0	55.6	44.4	100.0	57.7	42.3
Other non-S&E occupation	100.0	69.1	30.9	100.0	39.3	60.7	100.0	69.8	30.2	100.0	69.3	30.7

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

[a] Includes American Indians/Alaska Natives, Asians, Blacks, Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races. Detail for "American Indian/Alaska Native," "Asian," "Black," and "Other race" can be found in table 33.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 33. Non-Hispanic, minority employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)

Occupation	Total			American Indian/ Alaska Native			Asian			Black			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	Number														
All occupations	119,210	88,360	30,860	970	680	290	95,000	73,060	21,940	15,860	9,500	6,360	7,380	5,110	2,260
Science occupations	65,750	46,160	19,590	630	500	120	51,610	37,400	14,220	8,950	5,310	3,640	4,560	2,950	1,610
Biological, agricultural, and	21,750	13,720	8,030	180	160	S	18,090	11,500	6,590	2,100	1,210	890	1,380	850	530
Agricultural/food scientist	1,540	1,250	290	S	S	S	1,210	960	240	200	180	S	130	110	S
Biochemist/biophysicist	4,080	2,460	1,630	S	S	S	3,740	2,300	1,440	120	S	70	190	80	110
Biological scientist	4,010	2,130	1,890	S	S	S	3,360	1,840	1,520	300	110	190	320	150	170
Forestry/conservation scientist	80	60	S	S	S	S	S	S	S	S	S	S	S	S	S
Medical scientist	7,160	4,710	2,450	S	S	S	6,360	4,270	2,090	570	310	260	200	110	90
Postsecondary teacher, agricultural/other natural sciences	450	370	80	S	S	S	190	130	70	120	100	S	120	120	S
Postsecondary teacher, biological sciences	3,020	1,940	1,080	60	50	S	1,940	1,240	690	710	400	310	310	240	70
Other biological/agricultural/life scientist	1,400	810	590	S	S	S	1,240	720	520	70	S	S	70	S	50
Computer and information scientist	12,380	10,370	2,010	S	S	S	11,410	9,540	1,870	510	390	130	440	420	S
Computer/information scientist	10,230	8,550	1,680	S	S	S	9,620	8,010	1,610	250	190	60	330	330	S
Postsecondary teacher, computer science	2,160	1,830	330	S	S	S	1,790	1,530	250	260	200	60	110	90	S
Mathematical scientist	5,370	4,020	1,350	S	S	S	4,650	3,480	1,170	560	420	140	130	100	S
Mathematical scientist	2,770	2,100	680	S	S	S	2,420	1,840	580	290	210	80	60	S	S
Postsecondary teacher, mathematics/statistics	2,600	1,930	670	S	S	S	2,230	1,640	590	270	210	60	80	50	S
Physical scientist	13,630	11,110	2,520	120	120	S	11,470	9,300	2,180	1,100	920	190	930	780	140
Chemist, except biochemist	6,620	5,130	1,500	80	70	S	5,930	4,540	1,390	380	310	70	240	200	S
Earth/atmospheric/ocean scientist	1,310	1,140	170	S	S	S	1,050	910	140	100	100	S	150	130	S
Physicist/astronomer	2,210	1,980	230	S	S	S	2,040	1,860	190	80	70	S	80	S	S
Postsecondary teacher, chemistry	1,250	970	280	S	S	S	770	600	170	310	240	70	150	110	S
Postsecondary teacher, physics	1,180	1,030	150	S	S	S	1,010	880	130	100	80	S	80	70	S
Postsecondary teacher, other physical sciences	600	520	80	S	S	S	300	250	50	80	60	S	200	180	S
Other physical scientist	460	350	110	S	S	S	380	270	110	50	S	S	S	S	S
Psychologist	5,070	1,730	3,340	150	90	60	1,590	450	1,140	2,320	810	1,500	1,010	380	640
Psychologist	3,400	1,160	2,240	110	70	S	1,070	290	780	1,540	530	1,010	680	280	400
Postsecondary teacher, psychology	1,670	560	1,110	S	S	S	530	160	360	770	280	490	330	100	240
Social scientist	7,550	5,200	2,350	130	90	S	4,390	3,130	1,270	2,360	1,560	800	680	420	250
Economist	1,390	1,080	310	S	S	S	1,100	830	270	190	160	S	100	90	S
Political scientist	170	100	80	S	S	S	S	S	S	60	S	S	70	S	S
Postsecondary teacher, economics	1,740	1,400	340	S	S	S	1,300	1,070	230	410	300	100	S	S	S
Postsecondary teacher, political science	940	640	300	S	S	S	360	220	150	480	390	90	80	S	S
Postsecondary teacher, sociology	1,010	680	330	S	S	S	390	260	130	530	360	170	80	60	S
Postsecondary teacher, other social sciences	1,340	850	490	110	90	S	790	560	230	260	90	170	190	110	80
Sociologist/anthropologist	350	170	180	S	S	S	100	60	S	180	70	110	70	S	S

TABLE 33. Non-Hispanic, minority employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)

Occupation	Total			American Indian/ Alaska Native			Asian			Black			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Other social scientist	610	280	330	S	S	S	300	130	170	240	140	100	60	S	50
Engineering occupations	25,710	23,120	2,590	50	S	S	23,460	21,150	2,310	1,380	1,200	180	820	730	80
Aerospace/aeronautical/astronautical engineer	860	820	S	S	S	S	770	740	S	S	S	S	60	60	S
Chemical engineer	2,540	2,170	370	S	S	S	2,340	2,010	330	170	140	S	S	S	S
Civil/architectural/sanitary engineer	1,290	1,260	S	S	S	S	1,150	1,130	S	80	80	S	50	S	S
Electrical engineer	7,000	6,220	780	S	S	S	6,510	5,790	730	240	230	S	230	190	S
Materials/metallurgical engineer	470	380	90	S	S	S	450	370	80	S	S	S	S	S	S
Mechanical engineer	3,540	3,230	310	S	S	S	3,420	3,110	310	80	70	S	50	50	S
Postsecondary teacher, engineering	4,640	4,370	270	S	S	S	3,720	3,560	160	650	570	80	270	240	S
Other engineer	5,380	4,680	700	S	S	S	5,110	4,450	660	130	100	S	120	120	S
Science and engineering-related occupations	11,830	7,940	3,880	80	S	S	9,010	6,400	2,610	1,870	960	910	860	530	330
Health-related occupation, except postsecondary teacher	3,530	1,990	1,530	S	S	S	2,540	1,380	1,160	630	340	290	330	250	80
Postsecondary teacher, health and related sciences	2,580	1,370	1,210	S	S	S	1,670	1,110	560	680	210	460	210	S	160
S&E manager	3,950	3,220	730	S	S	S	3,320	2,750	570	380	290	80	250	170	70
S&E precollege teacher	490	320	170	S	S	S	240	170	80	190	120	70	S	S	S
S&E technician/technologist	1,160	950	210	S	S	S	1,140	930	210	S	S	S	S	S	S
Other S&E-related occupation	120	100	S	S	S	S	90	60	S	S	S	S	S	S	S
Non-science and engineering occupations	15,920	11,130	4,790	210	90	130	10,910	8,110	2,800	3,660	2,040	1,620	1,130	900	240
Arts/humanities-related occupation	570	300	280	S	S	S	440	190	250	130	110	S	S	S	S
Management-related occupation	3,430	2,400	1,030	50	S	S	2,710	1,920	790	510	300	210	160	160	S
Non-S&E manager	6,690	5,100	1,590	60	S	S	4,570	3,800	770	1,680	920	760	380	340	S
Non-S&E postsecondary teacher	1,880	1,060	820	S	S	S	1,070	640	420	650	320	340	120	80	S
Non-S&E precollege/other teacher	340	160	180	S	S	S	140	S	110	120	70	60	70	70	S
Sales/marketing occupation	1,370	1,040	320	S	S	S	1,110	900	210	90	60	S	110	90	S
Social service-related occupation	600	340	250	S	S	S	250	180	70	240	110	130	90	50	S
Other non-S&E occupation	1,060	730	320	S	S	S	620	450	170	240	160	80	200	120	70
	Percent														
All occupations	100.0	74.1	25.9	100.0	70.2	29.8	100.0	76.9	23.1	100.0	59.9	40.1	100.0	69.3	30.7
Science occupations	100.0	70.2	29.8	100.0	80.7	19.3	100.0	72.5	27.5	100.0	59.3	40.7	100.0	64.6	35.4
Biological, agricultural, and other life scientist	100.0	63.1	36.9	100.0	92.3	S	100.0	63.6	36.4	100.0	57.6	42.4	100.0	61.5	38.5
Agricultural/food scientist	100.0	81.1	18.9	100.0	S	S	100.0	79.8	20.2	100.0	88.6	S	100.0	81.1	S
Biochemist/biophysicist	100.0	60.2	39.8	100.0	S	S	100.0	61.4	38.6	100.0	S	59.7	100.0	43.0	57.0
Biological scientist	100.0	53.0	47.0	100.0	S	S	100.0	54.7	45.3	100.0	37.5	62.5	100.0	46.6	53.4
Forestry/conservation scientist	100.0	73.6	S	100.0	S	S	100.0	S	S	100.0	S	S	100.0	S	S
Medical scientist	100.0	65.8	34.2	100.0	S	S	100.0	67.1	32.9	100.0	54.9	45.1	100.0	53.3	46.7
Postsecondary teacher, agricultural/other natural sciences	100.0	82.2	17.8	100.0	S	S	100.0	66.3	33.7	100.0	87.0	S	100.0	100.0	S
Postsecondary teacher, biological sciences	100.0	64.3	35.7	100.0	91.9	S	100.0	64.2	35.8	100.0	56.3	43.7	100.0	77.9	22.1

TABLE 33. Non-Hispanic, minority employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)

Occupation	Total			American Indian/ Alaska Native			Asian			Black			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Other biological/agricultural/ life scientist	100.0	57.8	42.2	100.0	S	S	100.0	58.2	41.8	100.0	S	S	100.0	S	82.2
Computer and information scientist	100.0	83.8	16.2	100.0	S	S	100.0	83.6	16.4	100.0	75.4	24.6	100.0	96.3	S
Computer/information scientist	100.0	83.6	16.4	100.0	S	S	100.0	83.2	16.8	100.0	75.3	24.7	100.0	98.5	S
Postsecondary teacher, computer science	100.0	84.7	15.3	100.0	S	S	100.0	85.8	14.2	100.0	75.5	24.5	100.0	89.4	S
Mathematical scientist	100.0	74.9	25.1	100.0	S	S	100.0	74.8	25.2	100.0	75.4	24.6	100.0	75.1	S
Mathematical scientist	100.0	75.5	24.5	100.0	S	S	100.0	76.0	24.0	100.0	71.9	28.1	100.0	S	S
Postsecondary teacher, mathematics/statistics	100.0	74.3	25.7	100.0	S	S	100.0	73.6	26.4	100.0	79.2	20.8	100.0	71.1	S
Physical scientist	100.0	81.5	18.5	100.0	92.7	S	100.0	81.0	19.0	100.0	83.0	17.0	100.0	84.5	15.5
Chemist, except biochemist	100.0	77.4	22.6	100.0	94.2	S	100.0	76.5	23.5	100.0	82.3	17.7	100.0	85.8	S
Earth/atmospheric/ocean scientist	100.0	87.3	12.7	100.0	S	S	100.0	86.5	13.5	100.0	100.0	S	100.0	87.0	S
Physicist/astronomer	100.0	89.5	10.5	100.0	S	S	100.0	90.8	9.2	100.0	85.5	S	100.0	S	S
Postsecondary teacher, chemistry	100.0	77.6	22.4	100.0	S	S	100.0	77.7	22.3	100.0	77.2	22.8	100.0	74.4	S
Postsecondary teacher, physics	100.0	87.4	12.6	100.0	S	S	100.0	87.1	12.9	100.0	86.4	S	100.0	92.1	S
Postsecondary teacher, other physical sciences	100.0	86.3	13.7	100.0	S	S	100.0	83.0	17.0	100.0	80.1	S	100.0	92.3	S
Other physical scientist	100.0	75.4	24.6	100.0	S	S	100.0	72.0	28.0	100.0	S	S	100.0	S	S
Psychologist	100.0	34.1	65.9	100.0	60.0	40.0	100.0	28.3	71.7	100.0	35.0	65.0	100.0	37.1	62.9
Psychologist	100.0	34.2	65.8	100.0	59.8	S	100.0	27.0	73.0	100.0	34.4	65.6	100.0	40.9	59.1
Postsecondary teacher, psychology	100.0	33.8	66.2	100.0	S	S	100.0	31.1	68.9	100.0	36.3	63.7	100.0	29.3	70.7
Social scientist	100.0	68.9	31.1	100.0	72.7	S	100.0	71.1	28.9	100.0	66.2	33.8	100.0	62.8	37.2
Economist	100.0	77.6	22.4	100.0	S	S	100.0	75.5	24.5	100.0	81.7	S	100.0	92.6	S
Political scientist	100.0	56.7	43.3	100.0	S	S	100.0	S	S	100.0	S	S	100.0	S	S
Postsecondary teacher, economics	100.0	80.6	19.4	100.0	S	S	100.0	82.2	17.8	100.0	74.5	25.5	100.0	S	S
Postsecondary teacher, political science	100.0	68.5	31.5	100.0	S	S	100.0	59.4	40.6	100.0	81.3	18.7	100.0	S	S
Postsecondary teacher, sociology	100.0	67.4	32.6	100.0	S	S	100.0	66.2	33.8	100.0	68.2	31.8	100.0	70.8	S
Postsecondary teacher, other social sciences	100.0	63.4	36.6	100.0	85.5	S	100.0	70.7	29.3	100.0	34.9	65.1	100.0	59.1	40.9
Sociologist/anthropologist	100.0	49.2	50.8	100.0	S	S	100.0	53.8	S	100.0	40.0	60.0	100.0	S	S
Other social scientist	100.0	45.8	54.2	100.0	S	S	100.0	42.9	57.1	100.0	57.8	42.2	100.0	S	88.5
Engineering occupations	100.0	89.9	10.1	100.0	S	S	100.0	90.1	9.9	100.0	86.6	13.4	100.0	89.8	10.2
Aerospace/aeronautical/astronautical engineer	100.0	95.2	S	100.0	S	S	100.0	96.6	S	100.0	S	S	100.0	100.0	S
Chemical engineer	100.0	85.6	14.4	100.0	S	S	100.0	85.7	14.3	100.0	84.0	S	100.0	S	S
Civil/architectural/sanitary engineer	100.0	97.6	S	100.0	S	S	100.0	98.2	S	100.0	100.0	S	100.0	S	S
Electrical engineer	100.0	88.9	11.1	100.0	S	S	100.0	88.8	11.2	100.0	93.2	S	100.0	83.8	S
Materials/metallurgical engineer	100.0	80.4	19.6	100.0	S	S	100.0	82.0	18.0	100.0	S	S	100.0	S	S
Mechanical engineer	100.0	91.2	8.8	100.0	S	S	100.0	91.1	8.9	100.0	93.1	S	100.0	100.0	S
Postsecondary teacher, engineering	100.0	94.2	5.8	100.0	S	S	100.0	95.7	4.3	100.0	87.6	12.4	100.0	88.3	S
Other engineer	100.0	87.0	13.0	100.0	S	S	100.0	87.1	12.9	100.0	73.5	S	100.0	96.3	S
Science and engineering-related occupations	100.0	67.2	32.8	100.0	S	S	100.0	71.1	28.9	100.0	51.3	48.7	100.0	61.6	38.4

TABLE 33. Non-Hispanic, minority employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)

Occupation	Total			American Indian/ Alaska Native			Asian			Black			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Health-related occupation, except postsecondary teacher	100.0	56.5	43.5	100.0	S	S	100.0	54.5	45.5	100.0	54.0	46.0	100.0	76.5	23.5
Postsecondary teacher, health and related sciences	100.0	53.1	46.9	100.0	S	S	100.0	66.2	33.8	100.0	31.7	68.3	100.0	S	77.0
S&E manager	100.0	81.5	18.5	100.0	S	S	100.0	82.7	17.3	100.0	77.6	22.4	100.0	70.6	29.4
S&E precollege teacher	100.0	65.1	34.9	100.0	S	S	100.0	68.7	31.3	100.0	61.6	38.4	100.0	S	S
S&E technician/technologist	100.0	81.6	18.4	100.0	S	S	100.0	81.5	18.5	100.0	S	S	100.0	S	S
Other S&E-related occupation	100.0	78.7	S	100.0	S	S	100.0	71.2	S	100.0	S	S	100.0	S	S
Non-science and engineering occupations	100.0	69.9	30.1	100.0	40.7	59.3	100.0	74.3	25.7	100.0	55.7	44.3	100.0	79.2	20.8
Arts/humanities-related occupation	100.0	51.6	48.4	100.0	S	S	100.0	43.2	56.8	100.0	82.4	S	100.0	S	S
Management-related occupation	100.0	70.0	30.0	100.0	S	S	100.0	71.0	29.0	100.0	59.5	40.5	100.0	95.4	S
Non-S&E manager	100.0	76.2	23.8	100.0	S	S	100.0	83.1	16.9	100.0	54.7	45.3	100.0	89.1	S
Non-S&E postsecondary teacher	100.0	56.4	43.6	100.0	S	S	100.0	60.4	39.6	100.0	48.5	51.5	100.0	62.3	S
Non-S&E precollege/other teacher	100.0	46.8	53.2	100.0	S	S	100.0	S	80.4	100.0	54.0	46.0	100.0	100.0	S
Sales/marketing occupation	100.0	76.4	23.6	100.0	S	S	100.0	80.9	19.1	100.0	62.3	S	100.0	77.8	S
Social service-related occupation	100.0	57.7	42.3	100.0	S	S	100.0	71.4	28.6	100.0	46.0	54.0	100.0	54.5	S
Other non-S&E occupation	100.0	69.3	30.7	100.0	S	S	100.0	72.1	27.9	100.0	67.5	32.5	100.0	62.9	37.1

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races. Detail for "Hispanic" and "White" can be found in table 32.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 34. Employed doctoral scientists and engineers, by occupation and citizenship status: 2003

Occupation	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
	Number						
All occupations	593,300	533,960	445,960	88,000	59,340	39,620	19,720
Science occupations	352,960	316,040	271,340	44,700	36,910	24,260	12,660
Biological, agricultural, and other life scientist	104,650	92,600	79,120	13,470	12,050	7,550	4,510
Agricultural/food scientist	8,200	7,110	6,270	840	1,090	790	300
Biochemist/biophysicist	13,920	11,700	9,150	2,550	2,220	1,530	690
Biological scientist	18,390	16,250	14,090	2,160	2,150	1,140	1,010
Forestry/conservation scientist	1,390	1,330	1,260	70	60	S	60
Medical scientist	28,860	24,690	20,070	4,630	4,170	2,740	1,430
Postsecondary teacher, agricultural/other natural sciences	4,410	4,180	3,860	320	230	90	140
Postsecondary teacher, biological sciences	24,280	22,990	20,840	2,150	1,280	910	380
Other biological/agricultural/life scientist	5,200	4,350	3,580	770	850	360	490
Computer and information scientist	34,410	26,970	19,130	7,840	7,440	5,440	2,000
Computer/information scientist	26,770	20,690	14,650	6,040	6,080	4,440	1,640
Postsecondary teacher, computer science	7,640	6,280	4,480	1,800	1,360	1,000	360
Mathematical scientist	22,460	18,970	15,090	3,880	3,490	2,240	1,250
Mathematical scientist	8,830	7,290	5,400	1,890	1,530	880	650
Postsecondary teacher, mathematics/statistics	13,640	11,680	9,690	1,990	1,960	1,360	600
Physical scientist	73,730	65,950	55,300	10,650	7,780	4,670	3,110
Chemist, except biochemist	23,700	20,590	15,960	4,630	3,110	1,890	1,220
Earth/atmospheric/ocean scientist	9,010	8,050	7,130	920	960	500	460
Physicist/astronomer	13,650	11,960	9,960	2,000	1,690	970	720
Postsecondary teacher, chemistry	11,400	10,850	9,820	1,030	550	320	230
Postsecondary teacher, physics	7,810	7,150	5,750	1,400	670	510	160
Postsecondary teacher, other physical sciences	6,020	5,510	5,090	420	510	350	150
Other physical scientist	2,130	1,840	1,580	270	290	120	170
Psychologist	67,110	65,690	62,200	3,480	1,420	1,150	280
Psychologist	49,600	48,820	46,090	2,730	780	630	140
Postsecondary teacher, psychology	17,510	16,870	16,110	750	650	510	130
Social scientist	50,590	45,870	40,500	5,360	4,730	3,210	1,510
Economist	7,720	6,490	5,460	1,030	1,220	730	490
Political scientist	1,450	1,390	1,210	180	60	S	S
Postsecondary teacher, economics	8,410	7,040	5,840	1,200	1,380	950	430
Postsecondary teacher, political science	8,470	8,040	7,180	860	420	360	70
Postsecondary teacher, sociology	7,140	6,660	6,040	620	480	330	150
Postsecondary teacher, other social sciences	9,010	8,230	7,260	970	780	610	170
Sociologist/anthropologist	4,130	4,000	3,810	190	130	80	S
Other social scientist	4,280	4,010	3,700	310	260	140	120
Engineering occupations	77,000	63,340	43,250	20,090	13,660	8,630	5,030
Aerospace/aeronautical/astronautical engineer	4,050	3,840	2,830	1,010	220	190	S
Chemical engineer	7,010	5,800	4,010	1,790	1,200	970	240
Civil/architectural/sanitary engineer	3,780	2,850	1,660	1,190	930	540	390
Electrical engineer	16,550	12,650	8,140	4,510	3,900	2,300	1,600
Materials/metallurgical engineer	1,340	1,080	760	320	260	170	90
Mechanical engineer	8,570	6,700	4,130	2,560	1,870	1,020	860
Postsecondary teacher, engineering	17,380	15,370	10,540	4,840	2,010	1,400	610
Other engineer	18,330	15,060	11,180	3,880	3,270	2,060	1,220
Science and engineering-related occupations	64,650	60,960	50,950	10,010	3,690	2,940	750
Health-related occupation, except postsecondary teacher	17,050	16,170	13,240	2,930	880	660	220
Postsecondary teacher, health and related sciences	17,330	16,460	14,490	1,970	870	740	130
S&E manager	23,060	21,890	18,150	3,740	1,170	1,010	160
S&E precollege teacher	3,240	3,020	2,590	430	220	170	S
S&E technician/technologist	3,560	3,040	2,210	830	520	330	190

TABLE 34. Employed doctoral scientists and engineers, by occupation and citizenship status: 2003

Occupation	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
Other S&E-related occupation	410	380	260	110	S	S	S
Non-science and engineering occupations	98,700	93,620	80,420	13,200	5,080	3,790	1,290
Arts/humanities-related occupation	5,210	4,920	4,490	430	290	230	50
Management-related occupation	15,120	13,800	11,450	2,350	1,330	870	460
Non-S&E manager	44,320	42,800	36,670	6,130	1,520	1,290	230
Non-S&E postsecondary teacher	11,860	11,000	9,640	1,360	860	610	260
Non-S&E precollege/other teacher	2,400	2,280	1,980	300	120	80	S
Sales/marketing occupation	7,810	7,110	5,900	1,210	710	540	170
Social service-related occupation	3,390	3,360	2,940	420	S	S	S
Other non-S&E occupation	8,130	7,950	6,970	970	180	120	60
				Percent			
All occupations	100.0	90.0	75.2	14.8	10.0	6.7	3.3
Science occupations	100.0	89.5	76.9	12.7	10.5	6.9	3.6
Biological, agricultural, and other life scientist	100.0	88.5	75.6	12.9	11.5	7.2	4.3
Agricultural/food scientist	100.0	86.7	76.5	10.2	13.3	9.7	3.7
Biochemist/biophysicist	100.0	84.0	65.7	18.3	16.0	11.0	5.0
Biological scientist	100.0	88.3	76.6	11.7	11.7	6.2	5.5
Forestry/conservation scientist	100.0	95.7	90.7	4.9	4.3	S	4.3
Medical scientist	100.0	85.6	69.5	16.0	14.4	9.5	5.0
Postsecondary teacher, agricultural/other natural sciences	100.0	94.8	87.5	7.3	5.2	2.0	3.2
Postsecondary teacher, biological sciences	100.0	94.7	85.9	8.8	5.3	3.7	1.6
Other biological/agricultural/life scientist	100.0	83.6	68.9	14.8	16.4	6.8	9.5
Computer and information scientist	100.0	78.4	55.6	22.8	21.6	15.8	5.8
Computer/information scientist	100.0	77.3	54.7	22.6	22.7	16.6	6.1
Postsecondary teacher, computer science	100.0	82.2	58.6	23.6	17.8	13.1	4.7
Mathematical scientist	100.0	84.5	67.2	17.3	15.5	10.0	5.6
Mathematical scientist	100.0	82.6	61.2	21.4	17.4	10.0	7.4
Postsecondary teacher, mathematics/statistics	100.0	85.6	71.0	14.6	14.4	10.0	4.4
Physical scientist	100.0	89.4	75.0	14.4	10.6	6.3	4.2
Chemist, except biochemist	100.0	86.9	67.3	19.5	13.1	8.0	5.1
Earth/atmospheric/ocean scientist	100.0	89.4	79.2	10.2	10.6	5.5	5.1
Physicist/astronomer	100.0	87.6	73.0	14.6	12.4	7.1	5.3
Postsecondary teacher, chemistry	100.0	95.2	86.2	9.0	4.8	2.8	2.1
Postsecondary teacher, physics	100.0	91.4	73.5	17.9	8.6	6.5	2.0
Postsecondary teacher, other physical sciences	100.0	91.6	84.6	7.0	8.4	5.9	2.5
Other physical scientist	100.0	86.4	74.0	12.5	13.6	5.7	7.9
Psychologist	100.0	97.9	92.7	5.2	2.1	1.7	0.4
Psychologist	100.0	98.4	92.9	5.5	1.6	1.3	0.3
Postsecondary teacher, psychology	100.0	96.3	92.0	4.3	3.7	2.9	0.8
Social scientist	100.0	90.7	80.1	10.6	9.3	6.3	3.0
Economist	100.0	84.1	70.8	13.4	15.9	9.5	6.4
Political scientist	100.0	96.1	83.6	12.5	3.9	S	S
Postsecondary teacher, economics	100.0	83.6	69.4	14.2	16.4	11.3	5.1
Postsecondary teacher, political science	100.0	95.0	84.8	10.2	5.0	4.2	0.8
Postsecondary teacher, sociology	100.0	93.3	84.6	8.7	6.7	4.6	2.1
Postsecondary teacher, other social sciences	100.0	91.3	80.6	10.8	8.7	6.8	1.9
Sociologist/anthropologist	100.0	96.9	92.2	4.7	3.1	1.9	S
Other social scientist	100.0	93.8	86.6	7.2	6.2	3.3	2.9
Engineering occupations	100.0	82.3	56.2	26.1	17.7	11.2	6.5
Aerospace/aeronautical/astronautical engineer	100.0	94.7	69.9	24.8	5.3	4.7	S
Chemical engineer	100.0	82.8	57.3	25.5	17.2	13.8	3.4
Civil/architectural/sanitary engineer	100.0	75.4	44.0	31.4	24.6	14.3	10.3

TABLE 34. Employed doctoral scientists and engineers, by occupation and citizenship status: 2003

Occupation	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
Electrical engineer	100.0	76.4	49.2	27.3	23.6	13.9	9.7
Materials/metallurgical engineer	100.0	80.8	56.9	23.8	19.2	12.7	6.5
Mechanical engineer	100.0	78.2	48.2	29.9	21.8	11.9	10.0
Postsecondary teacher, engineering	100.0	88.4	60.6	27.8	11.6	8.0	3.5
Other engineer	100.0	82.2	61.0	21.2	17.8	11.2	6.6
Science and engineering-related occupations	100.0	94.3	78.8	15.5	5.7	4.6	1.2
Health-related occupation, except postsecondary teacher	100.0	94.9	77.7	17.2	5.1	3.8	1.3
Postsecondary teacher, health and related sciences	100.0	95.0	83.6	11.4	5.0	4.3	0.8
S&E manager	100.0	94.9	78.7	16.2	5.1	4.4	0.7
S&E precollege teacher	100.0	93.3	80.0	13.3	6.7	5.3	S
S&E technician/technologist	100.0	85.5	62.2	23.3	14.5	9.3	5.2
Other S&E-related occupation	100.0	91.6	64.2	27.4	S	S	S
Non-science and engineering occupations	100.0	94.9	81.5	13.4	5.1	3.8	1.3
Arts/humanities-related occupation	100.0	94.5	86.2	8.3	5.5	4.5	1.0
Management-related occupation	100.0	91.2	75.7	15.5	8.8	5.8	3.0
Non-S&E manager	100.0	96.6	82.7	13.8	3.4	2.9	0.5
Non-S&E postsecondary teacher	100.0	92.7	81.3	11.5	7.3	5.1	2.2
Non-S&E precollege/other teacher	100.0	95.0	82.6	12.4	5.0	3.5	S
Sales/marketing occupation	100.0	91.0	75.5	15.5	9.0	6.9	2.2
Social service-related occupation	100.0	99.2	86.8	12.4	S	S	S
Other non-S&E occupation	100.0	97.8	85.8	12.0	2.2	1.4	0.8

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 35. Employed doctoral scientists and engineers, by occupation and age: 2003

Occupation	Total	Under 35	35–39	40–44	45–49	50–54	55–59	60–64	65–75
	Number								
All occupations	593,300	60,020	79,400	88,710	92,610	90,340	84,690	62,350	35,180
Science occupations	352,960	40,700	51,270	53,500	56,120	51,360	46,850	33,940	19,220
Biological, agricultural, and other life scientist	104,650	13,890	17,400	17,120	17,890	14,060	11,860	8,230	4,190
Agricultural/food scientist	8,200	500	1,080	1,460	1,750	1,210	1,090	900	220
Biochemist/biophysicist	13,920	2,910	2,940	2,450	1,830	1,410	1,060	840	470
Biological scientist	18,390	3,310	3,420	3,080	2,600	2,310	1,870	1,210	590
Forestry/conservation scientist	1,390	S	S	210	390	310	170	130	80
Medical scientist	28,860	4,150	5,630	4,420	5,080	4,160	2,970	1,510	930
Postsecondary teacher, agricultural/other natural sciences	4,410	280	320	880	960	570	590	630	190
Postsecondary teacher, biological sciences	24,280	1,490	2,770	3,930	4,500	3,600	3,740	2,820	1,430
Other biological/agricultural/life scientist	5,200	1,200	1,190	690	760	500	370	200	280
Computer and information scientist	34,410	4,530	5,950	6,540	5,540	4,540	3,960	2,580	770
Computer/information scientist	26,770	3,940	4,720	5,510	4,260	3,400	2,780	1,710	440
Postsecondary teacher, computer science	7,640	590	1,230	1,030	1,280	1,130	1,170	870	330
Mathematical scientist	22,460	2,660	3,410	3,340	2,970	3,360	2,660	2,710	1,370
Mathematical scientist	8,830	910	1,500	1,540	1,180	1,300	1,190	920	290
Postsecondary teacher, mathematics/statistics	13,640	1,750	1,910	1,800	1,790	2,060	1,470	1,780	1,080
Physical scientist	73,730	9,530	10,740	11,690	11,530	9,150	8,380	7,450	5,260
Chemist, except biochemist	23,700	3,640	3,960	4,170	3,790	2,970	2,500	1,620	1,060
Earth/atmospheric/ocean scientist	9,010	700	1,090	1,510	1,570	1,510	1,300	700	630
Physicist/astronomer	13,650	2,300	1,880	1,710	2,070	1,550	1,440	1,530	1,180
Postsecondary teacher, chemistry	11,400	1,420	1,550	1,740	1,560	1,190	1,180	1,790	980
Postsecondary teacher, physics	7,810	700	1,160	1,100	1,100	660	1,140	1,060	880
Postsecondary teacher, other physical sciences	6,020	430	740	1,040	1,240	950	650	610	370
Other physical scientist	2,130	340	360	420	200	320	170	140	180
Psychologist	67,110	5,700	7,140	8,440	10,200	12,410	12,160	6,570	4,490
Psychologist	49,600	3,750	4,990	5,920	8,020	9,930	8,880	4,810	3,290
Postsecondary teacher, psychology	17,510	1,950	2,140	2,530	2,180	2,480	3,270	1,760	1,200
Social scientist	50,590	4,380	6,630	6,370	7,990	7,840	7,830	6,410	3,130
Economist	7,720	810	1,300	1,350	1,150	800	1,360	530	420
Political scientist	1,450	90	120	190	170	200	160	290	220
Postsecondary teacher, economics	8,410	810	840	910	1,430	1,510	1,440	1,210	270
Postsecondary teacher, political science	8,470	780	1,300	1,070	1,340	980	1,230	1,120	650
Postsecondary teacher, sociology	7,140	530	880	840	930	1,240	1,040	920	750
Postsecondary teacher, other social sciences	9,010	580	930	920	1,770	1,360	1,330	1,670	450
Sociologist/anthropologist	4,130	250	440	580	640	980	790	260	190
Other social scientist	4,280	540	830	500	560	780	490	410	180
Engineering occupations	77,000	10,340	12,760	13,750	10,540	8,410	8,600	7,220	5,380
Aerospace/aeronautical/astronautical engineer	4,050	360	610	760	470	520	560	450	330
Chemical engineer	7,010	1,090	1,290	1,410	1,060	590	650	510	400
Civil/architectural/sanitary engineer	3,780	300	630	560	470	500	410	510	400
Electrical engineer	16,550	2,690	3,250	3,360	1,960	1,170	1,850	1,280	990
Materials/metallurgical engineer	1,340	100	190	270	150	260	180	100	100
Mechanical engineer	8,570	1,270	1,580	1,630	1,080	830	680	880	600
Postsecondary teacher, engineering	17,380	1,460	2,220	2,960	2,670	2,400	2,250	1,880	1,530
Other engineer	18,330	3,070	2,980	2,800	2,680	2,160	2,020	1,600	1,020
Science and engineering-related occupations	64,650	3,850	6,910	9,390	11,710	11,850	10,760	6,960	3,220
Health-related occupation, except postsecondary teacher	17,050	1,630	2,000	2,120	3,050	2,640	2,770	1,710	1,130
Postsecondary teacher, health and related sciences	17,330	610	1,490	2,070	3,060	3,790	2,980	2,330	1,010
S&E manager	23,060	1,010	2,220	4,000	4,450	4,500	4,060	2,110	690
S&E precollege teacher	3,240	180	370	400	600	620	410	410	240
S&E technician/technologist	3,560	430	750	740	520	230	430	360	100
Other S&E-related occupation	410	S	80	60	S	70	110	S	S

TABLE 35. Employed doctoral scientists and engineers, by occupation and age: 2003

Occupation	Total	Under 35	35–39	40–44	45–49	50–54	55–59	60–64	65–75
Non-science and engineering occupations	98,700	5,130	8,460	12,070	14,240	18,710	18,480	14,240	7,370
Arts/humanities-related occupation	5,210	500	480	770	540	660	670	730	860
Management-related occupation	15,120	1,230	1,830	2,020	2,120	2,820	2,610	1,700	780
Non-S&E manager	44,320	960	2,700	5,390	6,910	9,550	9,520	6,950	2,320
Non-S&E postsecondary teacher	11,860	860	1,300	1,100	1,710	2,040	1,980	1,570	1,310
Non-S&E precollege/other teacher	2,400	140	140	380	390	630	230	320	170
Sales/marketing occupation	7,810	750	740	970	970	1,180	1,270	1,240	690
Social service-related occupation	3,390	190	280	300	360	630	870	470	290
Other non-S&E occupation	8,130	460	920	1,110	1,220	1,060	1,310	1,140	910
					Percent				
All occupations	100.0	10.1	13.4	15.0	15.6	15.2	14.3	10.5	5.9
Science occupations	100.0	11.5	14.5	15.2	15.9	14.6	13.3	9.6	5.4
Biological, agricultural, and other life scientist	100.0	13.3	16.6	16.4	17.1	13.4	11.3	7.9	4.0
Agricultural/food scientist	100.0	6.0	13.2	17.8	21.4	14.7	13.3	11.0	2.7
Biochemist/biophysicist	100.0	20.9	21.1	17.6	13.2	10.1	7.6	6.1	3.4
Biological scientist	100.0	18.0	18.6	16.8	14.2	12.6	10.2	6.6	3.2
Forestry/conservation scientist	100.0	S	S	15.5	28.1	22.2	12.3	9.1	5.7
Medical scientist	100.0	14.4	19.5	15.3	17.6	14.4	10.3	5.2	3.2
Postsecondary teacher, agricultural/other natural sciences	100.0	6.4	7.2	19.9	21.7	12.9	13.5	14.2	4.2
Postsecondary teacher, biological sciences	100.0	6.1	11.4	16.2	18.5	14.8	15.4	11.6	5.9
Other biological/agricultural/life scientist	100.0	23.2	22.9	13.2	14.7	9.5	7.1	3.9	5.4
Computer and information scientist	100.0	13.2	17.3	19.0	16.1	13.2	11.5	7.5	2.2
Computer/information scientist	100.0	14.7	17.6	20.6	15.9	12.7	10.4	6.4	1.7
Postsecondary teacher, computer science	100.0	7.7	16.1	13.5	16.8	14.8	15.4	11.4	4.3
Mathematical scientist	100.0	11.8	15.2	14.9	13.2	15.0	11.8	12.0	6.1
Mathematical scientist	100.0	10.3	17.0	17.4	13.4	14.8	13.5	10.4	3.3
Postsecondary teacher, mathematics/statistics	100.0	12.8	14.0	13.2	13.1	15.1	10.8	13.1	7.9
Physical scientist	100.0	12.9	14.6	15.8	15.6	12.4	11.4	10.1	7.1
Chemist, except biochemist	100.0	15.3	16.7	17.6	16.0	12.5	10.5	6.8	4.5
Earth/atmospheric/ocean scientist	100.0	7.8	12.1	16.8	17.5	16.8	14.4	7.7	6.9
Physicist/astronomer	100.0	16.9	13.8	12.5	15.1	11.4	10.5	11.2	8.6
Postsecondary teacher, chemistry	100.0	12.5	13.6	15.2	13.7	10.4	10.4	15.7	8.6
Postsecondary teacher, physics	100.0	9.0	14.9	14.0	14.1	8.5	14.6	13.6	11.2
Postsecondary teacher, other physical sciences	100.0	7.1	12.3	17.2	20.5	15.7	10.8	10.1	6.1
Other physical scientist	100.0	15.7	16.8	19.9	9.4	15.1	8.0	6.6	8.5
Psychologist	100.0	8.5	10.6	12.6	15.2	18.5	18.1	9.8	6.7
Psychologist	100.0	7.6	10.1	11.9	16.2	20.0	17.9	9.7	6.6
Postsecondary teacher, psychology	100.0	11.1	12.2	14.4	12.4	14.2	18.7	10.0	6.8
Social scientist	100.0	8.7	13.1	12.6	15.8	15.5	15.5	12.7	6.2
Economist	100.0	10.5	16.8	17.5	14.9	10.4	17.6	6.9	5.4
Political scientist	100.0	6.3	8.1	13.4	12.1	13.7	10.9	20.3	15.3
Postsecondary teacher, economics	100.0	9.7	9.9	10.8	16.9	17.9	17.1	14.3	3.3
Postsecondary teacher, political science	100.0	9.2	15.4	12.6	15.8	11.5	14.6	13.3	7.7
Postsecondary teacher, sociology	100.0	7.4	12.3	11.8	13.1	17.4	14.5	13.0	10.6
Postsecondary teacher, other social sciences	100.0	6.4	10.3	10.3	19.6	15.1	14.8	18.5	5.0
Sociologist/anthropologist	100.0	6.1	10.7	14.0	15.5	23.7	19.1	6.2	4.6
Other social scientist	100.0	12.6	19.3	11.6	13.0	18.2	11.5	9.5	4.1
Engineering occupations	100.0	13.4	16.6	17.9	13.7	10.9	11.2	9.4	7.0
Aerospace/aeronautical/astronautical engineer	100.0	8.9	15.0	18.8	11.5	12.7	13.7	11.2	8.1
Chemical engineer	100.0	15.5	18.5	20.1	15.1	8.4	9.3	7.3	5.7
Civil/architectural/sanitary engineer	100.0	7.9	16.7	14.8	12.5	13.2	10.8	13.4	10.6
Electrical engineer	100.0	16.3	19.6	20.3	11.9	7.0	11.2	7.7	6.0
Materials/metallurgical engineer	100.0	7.2	14.0	19.9	11.3	19.3	13.5	7.3	7.5
Mechanical engineer	100.0	14.9	18.5	19.0	12.6	9.7	8.0	10.3	7.0
Postsecondary teacher, engineering	100.0	8.4	12.8	17.0	15.4	13.8	12.9	10.8	8.8

TABLE 35. Employed doctoral scientists and engineers, by occupation and age: 2003

Occupation	Total	Under 35	35–39	40–44	45–49	50–54	55–59	60–64	65–75
Other engineer	100.0	16.7	16.3	15.3	14.6	11.8	11.0	8.7	5.6
Science and engineering-related occupations	100.0	6.0	10.7	14.5	18.1	18.3	16.6	10.8	5.0
Health-related occupation, except postsecondary teacher	100.0	9.5	11.7	12.4	17.9	15.5	16.2	10.0	6.6
Postsecondary teacher, health and related sciences	100.0	3.5	8.6	11.9	17.6	21.9	17.2	13.4	5.9
S&E manager	100.0	4.4	9.6	17.4	19.3	19.5	17.6	9.2	3.0
S&E precollege teacher	100.0	5.5	11.5	12.4	18.4	19.1	12.8	12.8	7.4
S&E technician/technologist	100.0	12.1	21.0	20.8	14.6	6.5	11.9	10.2	2.8
Other S&E-related occupation	100.0	S	19.8	14.9	S	17.5	27.1	S	S
Non-science and engineering occupations	100.0	5.2	8.6	12.2	14.4	19.0	18.7	14.4	7.5
Arts/humanities-related occupation	100.0	9.6	9.3	14.9	10.3	12.6	12.9	14.0	16.5
Management-related occupation	100.0	8.1	12.1	13.4	14.0	18.7	17.3	11.2	5.2
Non-S&E manager	100.0	2.2	6.1	12.2	15.6	21.6	21.5	15.7	5.2
Non-S&E postsecondary teacher	100.0	7.2	11.0	9.3	14.4	17.2	16.7	13.2	11.1
Non-S&E precollege/other teacher	100.0	5.7	5.9	16.0	16.2	26.2	9.5	13.4	7.1
Sales/marketing occupation	100.0	9.6	9.4	12.4	12.4	15.2	16.2	15.9	8.8
Social service-related occupation	100.0	5.7	8.1	8.8	10.7	18.6	25.6	13.8	8.6
Other non-S&E occupation	100.0	5.7	11.3	13.6	15.0	13.0	16.1	14.1	11.2

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 36. Employed doctoral scientists and engineers, by occupation and years since doctorate: 2003

Occupation	Total	5 or less	6–10	11–15	16–20	21–25	More than 25
				Number			
All occupations	593,300	115,670	107,500	87,230	76,620	68,200	138,080
Science occupations	352,960	76,740	64,980	51,980	45,310	38,780	75,160
Biological, agricultural, and other life scientist	104,650	25,840	20,240	16,210	12,490	10,550	19,320
Agricultural/food scientist	8,200	1,410	1,090	1,730	1,370	820	1,790
Biochemist/biophysicist	13,920	4,310	3,050	1,990	1,350	1,160	2,060
Biological scientist	18,390	6,390	3,640	2,320	1,730	1,820	2,490
Forestry/conservation scientist	1,390	230	140	380	350	80	210
Medical scientist	28,860	7,910	6,400	4,070	3,640	3,030	3,810
Postsecondary teacher, agricultural/other natural sciences	4,410	670	720	750	550	540	1,180
Postsecondary teacher, biological sciences	24,280	2,900	4,230	4,190	3,090	2,740	7,130
Other biological/agricultural/life scientist	5,200	2,020	970	780	420	360	650
Computer and information scientist	34,410	8,410	8,500	5,120	3,690	3,480	5,210
Computer/information scientist	26,770	6,790	6,930	4,000	2,790	2,730	3,530
Postsecondary teacher, computer science	7,640	1,620	1,570	1,130	900	740	1,680
Mathematical scientist	22,460	4,500	3,960	3,340	2,700	2,010	5,950
Mathematical scientist	8,830	1,960	1,780	1,380	1,090	740	1,880
Postsecondary teacher, mathematics/statistics	13,640	2,530	2,190	1,960	1,600	1,270	4,080
Physical scientist	73,730	14,680	12,130	10,700	9,900	7,290	19,030
Chemist, except biochemist	23,700	5,270	4,570	3,450	3,190	2,360	4,850
Earth/atmospheric/ocean scientist	9,010	2,050	1,310	1,090	1,280	1,130	2,150
Physicist/astronomer	13,650	2,930	1,830	1,990	1,930	1,300	3,670
Postsecondary teacher, chemistry	11,400	1,710	1,800	1,580	1,530	850	3,930
Postsecondary teacher, physics	7,810	1,090	1,190	1,270	1,000	680	2,590
Postsecondary teacher, other physical sciences	6,020	960	1,100	1,030	900	680	1,360
Other physical scientist	2,130	660	340	300	70	280	480
Psychologist	67,110	12,090	11,500	10,060	10,000	9,440	14,010
Psychologist	49,600	8,760	8,370	8,000	8,020	7,200	9,240
Postsecondary teacher, psychology	17,510	3,330	3,130	2,060	1,980	2,240	4,770
Social scientist	50,590	11,230	8,650	6,540	6,540	6,000	11,630
Economist	7,720	1,580	1,530	1,110	960	880	1,660
Political scientist	1,450	280	280	130	100	120	540
Postsecondary teacher, economics	8,410	1,350	1,080	1,230	1,270	1,400	2,090
Postsecondary teacher, political science	8,470	1,860	1,450	1,030	920	1,100	2,110
Postsecondary teacher, sociology	7,140	1,590	980	1,010	790	1,010	1,750
Postsecondary teacher, other social sciences	9,010	2,110	1,680	1,130	1,290	740	2,070
Sociologist/anthropologist	4,130	990	730	510	750	500	640
Other social scientist	4,280	1,470	930	400	460	260	760
Engineering occupations	77,000	17,260	16,320	11,370	8,320	6,170	17,560
Aerospace/aeronautical/astronautical engineer	4,050	680	720	630	500	280	1,240
Chemical engineer	7,010	1,220	1,720	1,340	800	470	1,460
Civil/architectural/sanitary engineer	3,780	870	710	630	260	360	930
Electrical engineer	16,550	4,200	4,230	2,210	1,460	1,110	3,330
Materials/metallurgical engineer	1,340	170	310	210	240	80	320
Mechanical engineer	8,570	2,450	1,890	1,080	770	410	1,960
Postsecondary teacher, engineering	17,380	2,880	2,690	2,830	2,670	1,730	4,590
Other engineer	18,330	4,770	4,030	2,430	1,620	1,740	3,730
Science and engineering-related occupations	64,650	9,920	11,800	10,000	9,620	8,630	14,680
Health-related occupation, except postsecondary teacher	17,050	3,450	3,020	2,480	2,150	2,090	3,860
Postsecondary teacher, health and related sciences	17,330	3,050	3,020	3,080	2,460	2,020	3,700
S&E manager	23,060	1,870	4,210	3,500	4,220	3,800	5,470
S&E precollege teacher	3,240	500	550	510	480	470	730
S&E technician/technologist	3,560	970	960	440	240	200	740

TABLE 36. Employed doctoral scientists and engineers, by occupation and years since doctorate: 2003

Occupation	Total	5 or less	6–10	11–15	16–20	21–25	More than 25
Other S&E-related occupation	410	70	S	S	60	50	180
Non-science and engineering occupations	98,700	11,750	14,410	13,880	13,370	14,620	30,670
Arts/humanities-related occupation	5,210	930	790	600	480	570	1,830
Management-related occupation	15,120	2,280	2,680	2,090	2,000	2,420	3,650
Non-S&E manager	44,320	2,580	5,500	6,230	6,640	7,710	15,650
Non-S&E postsecondary teacher	11,860	2,740	1,860	1,530	1,490	1,250	2,980
Non-S&E precollege/other teacher	2,400	340	460	500	440	200	450
Sales/marketing occupation	7,810	990	1,150	820	1,110	1,090	2,640
Social service-related occupation	3,390	750	480	520	480	330	820
Other non-S&E occupation	8,130	1,030	1,390	1,560	690	980	2,480
				Percent			
All occupations	100.0	19.5	18.1	14.7	12.9	11.5	23.3
Science occupations	100.0	21.7	18.4	14.7	12.8	11.0	21.3
Biological, agricultural, and other life scientist	100.0	24.7	19.3	15.5	11.9	10.1	18.5
Agricultural/food scientist	100.0	17.2	13.3	21.1	16.6	10.0	21.8
Biochemist/biophysicist	100.0	31.0	21.9	14.3	9.7	8.3	14.8
Biological scientist	100.0	34.8	19.8	12.6	9.4	9.9	13.5
Forestry/conservation scientist	100.0	16.6	9.9	27.3	25.5	5.6	15.0
Medical scientist	100.0	27.4	22.2	14.1	12.6	10.5	13.2
Postsecondary teacher, agricultural/other natural sciences	100.0	15.1	16.4	17.0	12.4	12.3	26.8
Postsecondary teacher, biological sciences	100.0	12.0	17.4	17.3	12.7	11.3	29.4
Other biological/agricultural/life scientist	100.0	38.8	18.7	15.0	8.0	6.9	12.5
Computer and information scientist	100.0	24.4	24.7	14.9	10.7	10.1	15.2
Computer/information scientist	100.0	25.3	25.9	14.9	10.4	10.2	13.2
Postsecondary teacher, computer science	100.0	21.2	20.5	14.7	11.8	9.7	22.0
Mathematical scientist	100.0	20.0	17.6	14.9	12.0	9.0	26.5
Mathematical scientist	100.0	22.2	20.1	15.6	12.4	8.4	21.3
Postsecondary teacher, mathematics/statistics	100.0	18.6	16.0	14.4	11.8	9.3	29.9
Physical scientist	100.0	19.9	16.5	14.5	13.4	9.9	25.8
Chemist, except biochemist	100.0	22.2	19.3	14.6	13.5	10.0	20.5
Earth/atmospheric/ocean scientist	100.0	22.7	14.5	12.1	14.2	12.6	23.9
Physicist/astronomer	100.0	21.5	13.4	14.6	14.1	9.6	26.9
Postsecondary teacher, chemistry	100.0	15.0	15.8	13.8	13.4	7.5	34.5
Postsecondary teacher, physics	100.0	13.9	15.2	16.2	12.8	8.8	33.1
Postsecondary teacher, other physical sciences	100.0	16.0	18.2	17.0	14.9	11.3	22.6
Other physical scientist	100.0	31.1	16.1	14.0	3.5	12.9	22.4
Psychologist	100.0	18.0	17.1	15.0	14.9	14.1	20.9
Psychologist	100.0	17.7	16.9	16.1	16.2	14.5	18.6
Postsecondary teacher, psychology	100.0	19.0	17.9	11.8	11.3	12.8	27.2
Social scientist	100.0	22.2	17.1	12.9	12.9	11.9	23.0
Economist	100.0	20.5	19.8	14.4	12.5	11.4	21.5
Political scientist	100.0	19.3	19.3	8.9	7.2	8.0	37.3
Postsecondary teacher, economics	100.0	16.1	12.8	14.6	15.1	16.6	24.9
Postsecondary teacher, political science	100.0	21.9	17.1	12.2	10.9	13.0	25.0
Postsecondary teacher, sociology	100.0	22.3	13.7	14.2	11.1	14.1	24.6
Postsecondary teacher, other social sciences	100.0	23.4	18.6	12.5	14.3	8.3	22.9
Sociologist/anthropologist	100.0	24.0	17.7	12.3	18.3	12.1	15.6
Other social scientist	100.0	34.4	21.6	9.3	10.6	6.1	17.8
Engineering occupations	100.0	22.4	21.2	14.8	10.8	8.0	22.8
Aerospace/aeronautical/astronautical engineer	100.0	16.9	17.8	15.7	12.3	6.8	30.5
Chemical engineer	100.0	17.5	24.6	19.1	11.4	6.7	20.8
Civil/architectural/sanitary engineer	100.0	23.1	18.9	16.8	6.9	9.5	24.7

TABLE 36. Employed doctoral scientists and engineers, by occupation and years since doctorate: 2003

Occupation	Total	5 or less	6–10	11–15	16–20	21–25	More than 25
Electrical engineer	100.0	25.4	25.6	13.4	8.8	6.7	20.1
Materials/metallurgical engineer	100.0	12.7	23.3	15.8	17.9	6.3	24.0
Mechanical engineer	100.0	28.6	22.1	12.6	9.0	4.8	22.9
Postsecondary teacher, engineering	100.0	16.6	15.5	16.3	15.3	10.0	26.4
Other engineer	100.0	26.0	22.0	13.3	8.8	9.5	20.3
Science and engineering-related occupations	100.0	15.3	18.2	15.5	14.9	13.4	22.7
Health-related occupation, except postsecondary teacher	100.0	20.2	17.7	14.5	12.6	12.2	22.6
Postsecondary teacher, health and related sciences	100.0	17.6	17.4	17.8	14.2	11.7	21.3
S&E manager	100.0	8.1	18.3	15.2	18.3	16.5	23.7
S&E precollege teacher	100.0	15.4	16.8	15.7	14.8	14.6	22.6
S&E technician/technologist	100.0	27.4	27.0	12.3	6.9	5.6	20.7
Other S&E-related occupation	100.0	18.0	S	S	14.0	13.4	44.5
Non-science and engineering occupations	100.0	11.9	14.6	14.1	13.5	14.8	31.1
Arts/humanities-related occupation	100.0	17.9	15.1	11.6	9.2	11.0	35.2
Management-related occupation	100.0	15.1	17.8	13.8	13.3	16.0	24.1
Non-S&E manager	100.0	5.8	12.4	14.1	15.0	17.4	35.3
Non-S&E postsecondary teacher	100.0	23.1	15.7	12.9	12.5	10.6	25.1
Non-S&E precollege/other teacher	100.0	14.3	19.3	20.8	18.4	8.5	18.7
Sales/marketing occupation	100.0	12.7	14.7	10.5	14.2	14.0	33.8
Social service-related occupation	100.0	22.2	14.2	15.3	14.2	9.8	24.3
Other non-S&E occupation	100.0	12.7	17.1	19.2	8.5	12.0	30.5

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 37. Employed doctoral scientists and engineers, by occupation and sector of employment: 2003

Occupation	Total	Universities and 4-year colleges	Other educational institutions	Private-for-profit	Private not-for-profit	Federal government	State and local government	Self-employed	Other
					Number				
All occupations	593,300	259,380	20,170	187,570	29,650	41,090	15,970	36,130	3,340
Science occupations	352,960	181,190	11,830	82,770	16,220	26,600	9,410	23,000	1,950
Biological, agricultural, and other life scientist	104,650	62,680	2,520	20,840	4,350	10,180	2,160	1,680	220
Agricultural/food scientist	8,200	3,090	S	3,060	230	1,400	160	240	S
Biochemist/biophysicist	13,920	7,030	S	4,930	580	1,130	60	180	S
Biological scientist	18,390	9,000	100	3,380	1,200	3,440	840	370	60
Forestry/conservation scientist	1,390	290	S	S	170	740	70	60	S
Medical scientist	28,860	15,040	S	7,720	1,740	2,880	810	590	70
Postsecondary teacher, agricultural/ other natural sciences	4,410	4,310	100	S	S	S	S	S	S
Postsecondary teacher, biological sciences	24,280	21,950	2,290	S	S	S	S	S	S
Other biological/agricultural/life scientist	5,200	1,970	S	1,730	420	590	190	250	S
Computer and information scientist	34,410	9,820	300	20,850	990	970	430	990	70
Computer/information scientist	26,770	2,430	90	20,850	990	950	430	960	70
Postsecondary teacher, computer science	7,640	7,390	210	S	S	S	S	S	S
Mathematical scientist	22,460	14,920	790	3,700	840	1,520	230	420	S
Mathematical scientist	8,830	2,070	S	3,700	840	1,520	230	400	S
Postsecondary teacher, mathematics/statistics	13,640	12,850	760	S	S	S	S	S	S
Physical scientist	73,730	33,180	2,570	24,190	2,160	8,210	1,580	1,500	350
Chemist, except biochemist	23,700	2,910	S	16,710	690	1,870	600	780	90
Earth/atmospheric/ocean scientist	9,010	2,750	S	2,390	440	2,650	440	300	S
Physicist/astronomer	13,650	4,440	S	4,190	880	3,240	350	260	260
Postsecondary teacher, chemistry	11,400	9,830	1,520	S	S	S	S	S	S
Postsecondary teacher, physics	7,810	7,080	740	S	S	S	S	S	S
Postsecondary teacher, other physical sciences	6,020	5,820	200	S	S	S	S	S	S
Other physical scientist	2,130	340	S	870	150	460	180	130	S
Psychologist	67,110	23,680	4,170	9,700	5,500	2,350	3,880	17,540	300
Psychologist	49,600	7,430	3,060	9,650	5,440	2,350	3,850	17,520	300
Postsecondary teacher, psychology	17,510	16,250	1,110	S	60	S	S	S	S
Social scientist	50,590	36,910	1,480	3,490	2,370	3,370	1,130	860	980
Economist	7,720	1,540	S	1,820	630	2,170	230	400	920
Political scientist	1,450	660	S	200	170	200	100	100	S
Postsecondary teacher, economics	8,410	8,040	310	S	S	S	S	S	S
Postsecondary teacher, political science	8,470	8,080	360	S	S	S	S	S	S
Postsecondary teacher, sociology	7,140	6,800	330	S	S	S	S	S	S
Postsecondary teacher, other social sciences	9,010	8,660	340	S	S	S	S	S	S
Sociologist/anthropologist	4,130	1,850	S	520	700	520	290	200	S
Other social scientist	4,280	1,280	90	920	840	470	490	150	S
Engineering occupations	77,000	22,920	340	41,990	1,910	5,590	1,250	2,670	330
Aerospace/aeronautical/astronautical engineer	4,050	160	S	2,510	330	900	60	110	S
Chemical engineer	7,010	330	S	5,890	220	290	S	180	S
Civil/architectural/sanitary engineer	3,780	450	S	2,130	110	310	460	270	50
Electrical engineer	16,550	1,560	S	12,280	540	1,090	130	900	S
Materials/metallurgical engineer	1,340	180	S	930	S	120	S	110	S
Mechanical engineer	8,570	790	S	6,520	180	500	140	380	S
Postsecondary teacher, engineering	17,380	17,040	290	S	S	S	S	S	S
Other engineer	18,330	2,400	S	11,710	540	2,380	400	730	150
Science and engineering-related occupations	64,650	26,460	3,770	21,810	3,980	3,940	2,000	2,380	300
Health-related occupation, except postsecondary teacher	17,050	5,490	280	5,910	1,620	1,320	540	1,800	100
Postsecondary teacher, health and related sciences	17,330	17,070	160	50	60	S	S	S	S
S&E manager	23,060	3,290	130	13,400	2,060	2,410	1,270	350	150

TABLE 37. Employed doctoral scientists and engineers, by occupation and sector of employment: 2003

Occupation	Total	Universities and 4-year colleges	Other educational institutions	Private-for-profit	Private not-for-profit	Federal government	State and local government	Self-employed	Other
S&E precollege teacher	3,240	S	3,180	S	S	S	S	S	S
S&E technician/technologist	3,560	620	S	2,140	240	180	110	200	50
Other S&E-related occupation	410	S	S	310	S	S	60	S	S
Non-science and engineering occupations	98,700	28,820	4,230	41,000	7,540	4,970	3,310	8,070	770
Arts/humanities-related occupation	5,210	570	S	1,950	600	120	100	1,860	S
Management-related occupation	15,120	1,440	180	8,120	1,270	1,310	860	1,690	260
Non-S&E manager	44,320	13,910	1,640	20,150	3,770	2,700	1,240	560	350
Non-S&E postsecondary teacher	11,860	11,330	500	S	S	S	S	S	S
Non-S&E precollege/other teacher	2,400	220	1,350	210	160	60	60	320	S
Sales/marketing occupation	7,810	80	S	5,910	110	70	60	1,560	S
Social service-related occupation	3,390	750	400	370	1,000	120	260	460	S
Other non-S&E occupation	8,130	510	140	4,260	580	350	560	1,600	120
					Percent				
All occupations	100.0	43.7	3.4	31.6	5.0	6.9	2.7	6.1	0.6
Science occupations	100.0	51.3	3.4	23.4	4.6	7.5	2.7	6.5	0.6
Biological, agricultural, and other life scientist	100.0	59.9	2.4	19.9	4.2	9.7	2.1	1.6	0.2
Agricultural/food scientist	100.0	37.6	S	37.3	2.8	17.0	2.0	2.9	S
Biochemist/biophysicist	100.0	50.5	S	35.4	4.2	8.1	0.4	1.3	S
Biological scientist	100.0	49.0	0.5	18.4	6.5	18.7	4.6	2.0	0.3
Forestry/conservation scientist	100.0	20.6	S	S	12.3	53.2	5.0	4.3	S
Medical scientist	100.0	52.1	S	26.8	6.0	10.0	2.8	2.1	0.2
Postsecondary teacher, agricultural/ other natural sciences	100.0	97.7	2.3	S	S	S	S	S	S
Postsecondary teacher, biological sciences	100.0	90.4	9.4	S	S	S	S	S	S
Other biological/agricultural/life scientist	100.0	37.9	S	33.3	8.2	11.3	3.7	4.7	S
Computer and information scientist	100.0	28.5	0.9	60.6	2.9	2.8	1.2	2.9	0.2
Computer/information scientist	100.0	9.1	0.3	77.9	3.7	3.6	1.6	3.6	0.2
Postsecondary teacher, computer science	100.0	96.7	2.7	S	S	S	S	S	S
Mathematical scientist	100.0	66.4	3.5	16.5	3.8	6.7	1.0	1.9	S
Mathematical scientist	100.0	23.4	S	41.9	9.5	17.2	2.6	4.5	S
Postsecondary teacher, mathematics/statistics	100.0	94.2	5.6	S	S	S	S	S	S
Physical scientist	100.0	45.0	3.5	32.8	2.9	11.1	2.1	2.0	0.5
Chemist, except biochemist	100.0	12.3	S	70.5	2.9	7.9	2.5	3.3	0.4
Earth/atmospheric/ocean scientist	100.0	30.5	S	26.6	4.8	29.4	4.9	3.4	S
Physicist/astronomer	100.0	32.5	S	30.7	6.5	23.7	2.6	1.9	1.9
Postsecondary teacher, chemistry	100.0	86.2	13.3	S	S	S	S	S	S
Postsecondary teacher, physics	100.0	90.6	9.4	S	S	S	S	S	S
Postsecondary teacher, other physical sciences	100.0	96.7	3.3	S	S	S	S	S	S
Other physical scientist	100.0	16.2	S	40.8	6.9	21.4	8.6	6.1	S
Psychologist	100.0	35.3	6.2	14.5	8.2	3.5	5.8	26.1	0.4
Psychologist	100.0	15.0	6.2	19.5	11.0	4.7	7.8	35.3	0.6
Postsecondary teacher, psychology	100.0	92.8	6.3	S	0.4	S	S	S	S
Social scientist	100.0	73.0	2.9	6.9	4.7	6.7	2.2	1.7	1.9
Economist	100.0	19.9	S	23.7	8.2	28.2	2.9	5.2	11.9
Political scientist	100.0	45.7	S	13.8	11.8	13.5	6.6	6.6	S
Postsecondary teacher, economics	100.0	95.5	3.7	S	S	S	S	S	S
Postsecondary teacher, political science	100.0	95.4	4.2	S	S	S	S	S	S
Postsecondary teacher, sociology	100.0	95.3	4.7	S	S	S	S	S	S
Postsecondary teacher, other social sciences	100.0	96.1	3.8	S	S	S	S	S	S
Sociologist/anthropologist	100.0	44.9	S	12.5	16.9	12.7	7.1	4.7	S
Other social scientist	100.0	29.9	2.1	21.6	19.5	11.1	11.3	3.5	S

TABLE 37. Employed doctoral scientists and engineers, by occupation and sector of employment: 2003

Occupation	Total	Universities and 4-year colleges	Other educational institutions	Private-for-profit	Private not-for-profit	Federal government	State and local government	Self-employed	Other
Engineering occupations	100.0	29.8	0.4	54.5	2.5	7.3	1.6	3.5	0.4
Aerospace/aeronautical/astronautical engineer	100.0	4.0	S	61.9	8.0	22.1	1.4	2.7	S
Chemical engineer	100.0	4.7	S	84.1	3.2	4.1	S	2.6	S
Civil/architectural/sanitary engineer	100.0	11.9	S	56.4	2.8	8.2	12.1	7.2	1.4
Electrical engineer	100.0	9.5	S	74.2	3.2	6.6	0.8	5.4	S
Materials/metallurgical engineer	100.0	13.4	S	69.4	S	9.0	S	8.2	S
Mechanical engineer	100.0	9.3	S	76.1	2.1	5.9	1.6	4.4	S
Postsecondary teacher, engineering	100.0	98.0	1.6	S	S	S	S	S	S
Other engineer	100.0	13.1	S	63.9	2.9	13.0	2.2	4.0	0.8
Science and engineering-related occupations	100.0	40.9	5.8	33.7	6.2	6.1	3.1	3.7	0.5
Health-related occupation, except postsecondary teacher	100.0	32.2	1.6	34.7	9.5	7.7	3.2	10.5	0.6
Postsecondary teacher, health and related sciences	100.0	98.5	0.9	0.3	0.4	S	S	S	S
S&E manager	100.0	14.3	0.6	58.1	8.9	10.5	5.5	1.5	0.6
S&E precollege teacher	100.0	S	98.3	S	S	S	S	S	S
S&E technician/technologist	100.0	17.3	S	60.0	6.8	4.9	3.2	5.6	1.4
Other S&E-related occupation	100.0	S	S	76.0	S	S	14.2	S	S
Non-science and engineering occupations	100.0	29.2	4.3	41.5	7.6	5.0	3.3	8.2	0.8
Arts/humanities-related occupation	100.0	11.0	S	37.4	11.6	2.3	1.9	35.8	S
Management-related occupation	100.0	9.5	1.2	53.7	8.4	8.6	5.7	11.2	1.8
Non-S&E manager	100.0	31.4	3.7	45.5	8.5	6.1	2.8	1.3	0.8
Non-S&E postsecondary teacher	100.0	95.5	4.2	S	S	S	S	S	S
Non-S&E precollege/other teacher	100.0	9.3	56.3	8.9	6.8	2.6	2.4	13.3	S
Sales/marketing occupation	100.0	1.0	S	75.7	1.5	0.9	0.8	19.9	S
Social service-related occupation	100.0	22.0	11.8	10.9	29.5	3.6	7.7	13.6	S
Other non-S&E occupation	100.0	6.2	1.8	52.4	7.2	4.3	6.9	19.7	1.4

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 38. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and sex: 2003

Employment sector and occupation	Total	Male	Female	Total	Male	Female
	Number			Percent		
All sectors	593,300	432,150	161,150	100.0	72.8	27.2
Science occupations	352,960	248,120	104,840	100.0	70.3	29.7
Biological, agricultural, and other life scientist	104,650	71,100	33,550	100.0	67.9	32.1
Computer and information scientist	34,410	29,750	4,660	100.0	86.5	13.5
Mathematical scientist	22,460	17,840	4,620	100.0	79.4	20.6
Physical scientist	73,730	62,730	11,010	100.0	85.1	14.9
Psychologist	67,110	32,320	34,790	100.0	48.2	51.8
Social scientist	50,590	34,370	16,220	100.0	67.9	32.1
Engineering occupations	77,000	70,040	6,960	100.0	91.0	9.0
S&E-related occupations	64,650	43,700	20,940	100.0	67.6	32.4
Non-S&E occupations	98,700	70,290	28,410	100.0	71.2	28.8
Universities and 4-year colleges	259,380	182,090	77,290	100.0	70.2	29.8
Science occupations	181,190	126,940	54,240	100.0	70.1	29.9
Biological, agricultural, and other life scientist	62,680	41,940	20,740	100.0	66.9	33.1
Computer and information scientist	9,820	8,470	1,350	100.0	86.3	13.7
Mathematical scientist	14,920	11,700	3,220	100.0	78.4	21.6
Physical scientist	33,180	28,010	5,170	100.0	84.4	15.6
Psychologist	23,680	11,660	12,020	100.0	49.2	50.8
Social scientist	36,910	25,160	11,740	100.0	68.2	31.8
Engineering occupations	22,920	20,720	2,200	100.0	90.4	9.6
S&E-related occupations	26,460	14,970	11,490	100.0	56.6	43.4
Non-S&E occupations	28,820	19,470	9,360	100.0	67.5	32.5
Other educational institutions	20,170	11,780	8,390	100.0	58.4	41.6
Science occupations	11,830	7,270	4,560	100.0	61.5	38.5
Biological, agricultural, and other life scientist	2,520	1,540	980	100.0	61.3	38.7
Computer and information scientist	300	260	S	100.0	86.4	S
Mathematical scientist	790	640	150	100.0	81.1	18.9
Physical scientist	2,570	2,160	410	100.0	84.2	15.8
Psychologist	4,170	1,660	2,510	100.0	39.9	60.1
Social scientist	1,480	1,000	480	100.0	67.6	32.4
Engineering occupations	340	290	50	100.0	85.0	15.0
S&E-related occupations	3,770	2,260	1,520	100.0	59.8	40.2
Non-S&E occupations	4,230	1,960	2,270	100.0	46.4	53.6
Private-for-profit	187,570	153,260	34,310	100.0	81.7	18.3
Science occupations	82,770	64,250	18,520	100.0	77.6	22.4
Biological, agricultural, and other life scientist	20,840	14,810	6,040	100.0	71.0	29.0
Computer and information scientist	20,850	18,090	2,760	100.0	86.8	13.2
Mathematical scientist	3,700	3,050	650	100.0	82.5	17.5
Physical scientist	24,190	20,640	3,550	100.0	85.3	14.7
Psychologist	9,700	5,200	4,500	100.0	53.6	46.4
Social scientist	3,490	2,470	1,020	100.0	70.8	29.2
Engineering occupations	41,990	38,330	3,660	100.0	91.3	8.7
S&E-related occupations	21,810	17,900	3,920	100.0	82.0	18.0
Non-S&E occupations	41,000	32,790	8,210	100.0	80.0	20.0
Private not-for-profit	29,650	18,800	10,850	100.0	63.4	36.6
Science occupations	16,220	10,150	6,070	100.0	62.6	37.4
Biological, agricultural, and other life scientist	4,350	2,990	1,360	100.0	68.7	31.3
Computer and information scientist	990	880	120	100.0	88.3	11.7
Mathematical scientist	840	650	190	100.0	77.1	22.9
Physical scientist	2,160	1,800	350	100.0	83.6	16.4
Psychologist	5,500	2,590	2,910	100.0	47.1	52.9
Social scientist	2,370	1,240	1,130	100.0	52.3	47.7
Engineering occupations	1,910	1,800	110	100.0	94.1	5.9
S&E-related occupations	3,980	2,560	1,420	100.0	64.4	35.6
Non-S&E occupations	7,540	4,290	3,250	100.0	56.9	43.1

TABLE 38. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and sex: 2003

Employment sector and occupation	Total	Male	Female	Total	Male	Female
	Number			Percent		
Federal government	41,090	31,380	9,720	100.0	76.4	23.6
Science occupations	26,600	20,170	6,430	100.0	75.8	24.2
Biological, agricultural, and other life scientist	10,180	6,940	3,240	100.0	68.2	31.8
Computer and information scientist	970	860	100	100.0	89.2	10.8
Mathematical scientist	1,520	1,290	220	100.0	85.3	14.7
Physical scientist	8,210	7,180	1,030	100.0	87.4	12.6
Psychologist	2,350	1,450	900	100.0	61.6	38.4
Social scientist	3,370	2,440	920	100.0	72.6	27.4
Engineering occupations	5,590	4,910	670	100.0	87.9	12.1
S&E-related occupations	3,940	2,780	1,160	100.0	70.6	29.4
Non-S&E occupations	4,970	3,510	1,450	100.0	70.7	29.3
State and local government	15,970	11,090	4,880	100.0	69.5	30.5
Science occupations	9,410	6,400	3,000	100.0	68.1	31.9
Biological, agricultural, and other life scientist	2,160	1,590	570	100.0	73.6	26.4
Computer and information scientist	430	300	120	100.0	71.2	28.8
Mathematical scientist	230	170	60	100.0	74.0	26.0
Physical scientist	1,580	1,310	270	100.0	82.8	17.2
Psychologist	3,880	2,350	1,530	100.0	60.5	39.5
Social scientist	1,130	680	450	100.0	60.4	39.6
Engineering occupations	1,250	1,120	130	100.0	89.5	10.5
S&E-related occupations	2,000	1,430	570	100.0	71.5	28.5
Non-S&E occupations	3,310	2,130	1,170	100.0	64.5	35.5
Self-employed	36,130	21,310	14,820	100.0	59.0	41.0
Science occupations	23,000	11,540	11,460	100.0	50.2	49.8
Biological, agricultural, and other life scientist	1,680	1,150	530	100.0	68.4	31.6
Computer and information scientist	990	830	160	100.0	84.1	15.9
Mathematical scientist	420	300	120	100.0	70.7	29.3
Physical scientist	1,500	1,330	180	100.0	88.3	11.7
Psychologist	17,540	7,310	10,230	100.0	41.7	58.3
Social scientist	860	620	240	100.0	72.0	28.0
Engineering occupations	2,670	2,600	70	100.0	97.2	2.8
S&E-related occupations	2,380	1,590	790	100.0	66.7	33.3
Non-S&E occupations	8,070	5,580	2,490	100.0	69.1	30.9
Other	3,340	2,440	900	100.0	73.0	27.0
Science occupations	1,950	1,390	560	100.0	71.5	28.5
Biological, agricultural, and other life scientist	220	140	80	100.0	62.7	37.3
Computer and information scientist	70	50	S	100.0	84.0	S
Mathematical scientist	S	S	S	S	S	S
Physical scientist	350	310	S	100.0	88.4	S
Psychologist	300	110	190	100.0	36.5	63.5
Social scientist	980	750	230	100.0	76.5	23.5
Engineering occupations	330	280	50	100.0	84.6	15.4
S&E-related occupations	300	220	80	100.0	72.7	27.3
Non-S&E occupations	770	550	210	100.0	72.2	27.8

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 39. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2003 (corrected January 2011)

Employment sector and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
	Number						
All sectors	593,300	970	95,000	15,860	16,220	457,870	7,380
Science occupations	352,960	630	51,610	8,950	10,290	276,920	4,560
Biological, agricultural, and other life scientist	104,650	180	18,090	2,100	3,140	79,770	1,380
Computer and information scientist	34,410	S	11,410	510	600	21,420	440
Mathematical scientist	22,460	S	4,650	560	630	16,470	130
Physical scientist	73,730	120	11,470	1,100	1,810	58,300	930
Psychologist	67,110	150	1,590	2,320	2,470	59,570	1,010
Social scientist	50,590	130	4,390	2,360	1,640	41,400	680
Engineering occupations	77,000	50	23,460	1,380	1,950	49,340	820
S&E-related occupations	64,650	80	9,010	1,870	1,430	51,390	860
Non-science and engineering occupations	98,700	210	10,910	3,660	2,550	80,220	1,130
Universities and 4-year colleges	259,380	460	32,840	8,790	8,720	205,210	3,370
Science occupations	181,190	400	22,770	5,420	6,300	143,800	2,490
Biological, agricultural, and other life scientist	62,680	130	10,070	1,370	2,210	48,110	790
Computer and information scientist	9,820	S	2,290	280	230	6,900	130
Mathematical scientist	14,920	S	2,480	390	480	11,470	80
Physical scientist	33,180	70	3,980	510	1,030	27,020	570
Psychologist	23,680	60	730	1,030	1,100	20,330	430
Social scientist	36,910	120	3,220	1,830	1,260	29,980	490
Engineering occupations	22,920	S	5,120	730	870	15,860	340
S&E-related occupations	26,460	S	3,130	930	640	21,430	310
Non-S&E occupations	28,820	S	1,820	1,710	910	24,120	220
Other educational institutions	20,170	60	1,540	1,110	680	16,590	200
Science occupations	11,830	S	970	560	400	9,810	90
Biological, agricultural, and other life scientist	2,520	S	270	100	70	2,050	S
Computer and information scientist	300	S	70	S	S	210	S
Mathematical scientist	790	S	300	S	S	470	S
Physical scientist	2,570	S	140	S	60	2,310	S
Psychologist	4,170	S	110	270	220	3,530	S
Social scientist	1,480	S	80	120	S	1,250	S
Engineering occupations	340	S	120	S	S	220	S
S&E-related occupations	3,770	S	260	250	70	3,140	S
Non-S&E occupations	4,230	S	200	300	210	3,420	80
Private-for-profit	187,570	230	48,430	3,000	3,720	130,120	2,060
Science occupations	82,770	100	20,640	1,360	1,590	58,210	880
Biological, agricultural, and other life scientist	20,840	S	5,010	310	460	14,820	250
Computer and information scientist	20,850	S	8,270	220	340	11,760	240
Mathematical scientist	3,700	S	1,240	60	100	2,290	S
Physical scientist	24,190	50	5,610	380	350	17,630	170
Psychologist	9,700	S	170	310	280	8,800	110
Social scientist	3,490	S	330	80	60	2,910	100
Engineering occupations	41,990	S	16,350	480	760	24,050	320
S&E-related occupations	21,810	S	4,290	360	510	16,290	360
Non-S&E occupations	41,000	100	7,160	800	870	31,580	500
Private not-for-profit	29,650	S	3,330	690	600	24,460	530
Science occupations	16,220	S	2,090	310	340	13,150	290
Biological, agricultural, and other life scientist	4,350	S	850	S	S	3,340	90
Computer and information scientist	990	S	210	S	S	750	S
Mathematical scientist	840	S	120	S	S	710	S
Physical scientist	2,160	S	460	S	S	1,630	S
Psychologist	5,500	S	210	180	180	4,810	90
Social scientist	2,370	S	250	80	100	1,910	S
Engineering occupations	1,910	S	480	S	S	1,370	S

TABLE 39. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2003 (corrected January 2011)

Employment sector and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
S&E-related occupations	3,980	S	290	120	S	3,450	70
Non-S&E occupations	7,540	S	460	250	190	6,490	140
Federal government	41,090	S	4,720	1,130	890	33,740	560
Science occupations	26,600	S	3,420	700	680	21,370	380
Biological, agricultural, and other life scientist	10,180	S	1,590	210	250	7,960	170
Computer and information scientist	970	S	230	S	S	720	S
Mathematical scientist	1,520	S	380	80	S	1,030	S
Physical scientist	8,210	S	960	110	250	6,790	100
Psychologist	2,350	S	S	140	100	1,980	60
Social scientist	3,370	S	240	150	60	2,900	S
Engineering occupations	5,590	S	830	60	110	4,440	140
S&E-related occupations	3,940	S	220	110	50	3,540	S
Non-S&E occupations	4,970	S	250	260	S	4,390	S
State and local government	15,970	S	1,870	600	540	12,660	250
Science occupations	9,410	S	920	310	340	7,670	140
Biological, agricultural, and other life scientist	2,160	S	190	S	50	1,840	S
Computer and information scientist	430	S	160	S	S	260	S
Mathematical scientist	230	S	90	S	S	140	S
Physical scientist	1,580	S	190	S	80	1,260	S
Psychologist	3,880	S	180	180	160	3,270	100
Social scientist	1,130	S	100	70	S	920	S
Engineering occupations	1,250	S	340	S	S	860	S
S&E-related occupations	2,000	S	400	90	70	1,380	S
Non-S&E occupations	3,310	S	220	150	120	2,750	60
Self-employed	36,130	90	1,670	490	840	32,650	400
Science occupations	23,000	S	510	260	540	21,390	280
Biological, agricultural, and other life scientist	1,680	S	80	S	S	1,510	S
Computer and information scientist	990	S	150	S	S	810	S
Mathematical scientist	420	S	S	S	S	350	S
Physical scientist	1,500	S	130	S	S	1,330	S
Psychologist	17,540	S	150	220	430	16,560	190
Social scientist	860	S	S	S	S	830	S
Engineering occupations	2,670	S	190	S	100	2,320	S
S&E-related occupations	2,380	S	370	S	S	1,930	S
Non-S&E occupations	8,070	S	590	170	160	7,010	110
Other	3,340	S	600	60	220	2,430	S
Science occupations	1,950	S	290	S	100	1,510	S
Biological, agricultural, and other life scientist	220	S	S	S	S	150	S
Computer and information scientist	70	S	S	S	S	S	S
Mathematical scientist	S	S	S	S	S	S	S
Physical scientist	350	S	S	S	S	340	S
Psychologist	300	S	S	S	S	290	S
Social scientist	980	S	180	S	80	720	S
Engineering occupations	330	S	S	S	70	220	S
S&E-related occupations	300	S	60	S	S	230	S
Non-S&E occupations	770	S	210	S	50	470	S
				Percent			
All sectors	100.0	0.2	16.0	2.7	2.7	77.2	1.2
Science occupations	100.0	0.2	14.6	2.5	2.9	78.5	1.3
Biological, agricultural, and other life scientist	100.0	0.2	17.3	2.0	3.0	76.2	1.3
Computer and information scientist	100.0	S	33.2	1.5	1.8	62.3	1.3
Mathematical scientist	100.0	S	20.7	2.5	2.8	73.3	0.6
Physical scientist	100.0	0.2	15.6	1.5	2.5	79.1	1.3

TABLE 39. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2003 (corrected January 2011)

Employment sector and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Psychologist	100.0	0.2	2.4	3.4	3.7	88.8	1.5
Social scientist	100.0	0.2	8.7	4.7	3.2	81.8	1.3
Engineering occupations	100.0	0.1	30.5	1.8	2.5	64.1	1.1
S&E-related occupations	100.0	0.1	13.9	2.9	2.2	79.5	1.3
Non-S&E occupations	100.0	0.2	11.1	3.7	2.6	81.3	1.1
Universities and 4-year colleges	100.0	0.2	12.7	3.4	3.4	79.1	1.3
Science occupations	100.0	0.2	12.6	3.0	3.5	79.4	1.4
Biological, agricultural, and other life scientist	100.0	0.2	16.1	2.2	3.5	76.8	1.3
Computer and information scientist	100.0	S	23.3	2.8	2.3	70.2	1.3
Mathematical scientist	100.0	S	16.6	2.6	3.2	76.9	0.5
Physical scientist	100.0	0.2	12.0	1.6	3.1	81.4	1.7
Psychologist	100.0	0.3	3.1	4.3	4.6	85.8	1.8
Social scientist	100.0	0.3	8.7	5.0	3.4	81.2	1.3
Engineering occupations	100.0	S	22.3	3.2	3.8	69.2	1.5
S&E-related occupations	100.0	S	11.8	3.5	2.4	81.0	1.2
Non-S&E occupations	100.0	S	6.3	5.9	3.1	83.7	0.8
Other educational institutions	100.0	0.3	7.6	5.5	3.4	82.3	1.0
Science occupations	100.0	S	8.2	4.7	3.4	83.0	0.7
Biological, agricultural, and other life scientist	100.0	S	10.6	4.1	2.8	81.3	S
Computer and information scientist	100.0	S	23.3	S	S	71.2	S
Mathematical scientist	100.0	S	38.4	S	S	58.6	S
Physical scientist	100.0	S	5.3	S	2.5	89.9	S
Psychologist	100.0	S	2.7	6.4	5.4	84.7	S
Social scientist	100.0	S	5.1	8.2	S	84.3	S
Engineering occupations	100.0	S	33.9	S	S	64.0	S
S&E-related occupations	100.0	S	6.8	6.6	1.7	83.2	S
Non-S&E occupations	100.0	S	4.7	7.1	4.9	80.8	1.8
Private-for-profit	100.0	0.1	25.8	1.6	2.0	69.4	1.1
Science occupations	100.0	0.1	24.9	1.6	1.9	70.3	1.1
Biological, agricultural, and other life scientist	100.0	S	24.0	1.5	2.2	71.1	1.2
Computer and information scientist	100.0	S	39.7	1.0	1.6	56.4	1.2
Mathematical scientist	100.0	S	33.4	1.6	2.7	62.0	S
Physical scientist	100.0	0.2	23.2	1.6	1.4	72.9	0.7
Psychologist	100.0	S	1.8	3.2	2.9	90.7	1.2
Social scientist	100.0	S	9.6	2.4	1.8	83.4	2.8
Engineering occupations	100.0	S	38.9	1.2	1.8	57.3	0.8
S&E-related occupations	100.0	S	19.6	1.7	2.3	74.7	1.7
Non-S&E occupations	100.0	0.2	17.5	1.9	2.1	77.0	1.2
Private not-for-profit	100.0	S	11.2	2.3	2.0	82.5	1.8
Science occupations	100.0	S	12.9	1.9	2.1	81.1	1.8
Biological, agricultural, and other life scientist	100.0	S	19.6	S	S	76.7	2.0
Computer and information scientist	100.0	S	20.7	S	S	75.0	S
Mathematical scientist	100.0	S	14.0	S	S	84.6	S
Physical scientist	100.0	S	21.2	S	S	75.6	S
Psychologist	100.0	S	3.8	3.2	3.3	87.5	1.6
Social scientist	100.0	S	10.6	3.2	4.2	80.5	S
Engineering occupations	100.0	S	25.3	S	S	71.6	S
S&E-related occupations	100.0	S	7.4	3.0	S	86.7	1.8
Non-S&E occupations	100.0	S	6.1	3.3	2.6	86.2	1.9
Federal government	100.0	S	11.5	2.8	2.2	82.1	1.4
Science occupations	100.0	S	12.9	2.6	2.6	80.4	1.4
Biological, agricultural, and other life scientist	100.0	S	15.6	2.1	2.5	78.1	1.7
Computer and information scientist	100.0	S	23.7	S	S	74.5	S

TABLE 39. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2003 (corrected January 2011)

Employment sector and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Mathematical scientist	100.0	S	24.8	5.6	S	68.0	S
Physical scientist	100.0	S	11.7	1.3	3.0	82.7	1.2
Psychologist	100.0	S	S	6.0	4.3	84.3	2.6
Social scientist	100.0	S	7.0	4.4	1.6	85.9	S
Engineering occupations	100.0	S	14.9	1.2	2.0	79.5	2.5
S&E-related occupations	100.0	S	5.5	2.9	1.3	89.7	S
Non-S&E occupations	100.0	S	5.1	5.3	S	88.4	S
State and local government	100.0	S	11.7	3.7	3.4	79.3	1.6
Science occupations	100.0	S	9.7	3.3	3.6	81.5	1.5
Biological, agricultural, and other life scientist	100.0	S	8.8	S	2.4	84.9	S
Computer and information scientist	100.0	S	38.5	S	S	60.4	S
Mathematical scientist	100.0	S	40.0	S	S	60.0	S
Physical scientist	100.0	S	12.2	S	5.3	79.5	S
Psychologist	100.0	S	4.6	4.6	4.1	84.2	2.5
Social scientist	100.0	S	8.5	6.3	S	81.2	S
Engineering occupations	100.0	S	27.0	S	S	68.5	S
S&E-related occupations	100.0	S	19.7	4.3	3.7	68.9	S
Non-S&E occupations	100.0	S	6.6	4.5	3.6	83.3	1.8
Self-employed	100.0	0.2	4.6	1.3	2.3	90.4	1.1
Science occupations	100.0	S	2.2	1.1	2.3	93.0	1.2
Biological, agricultural, and other life scientist	100.0	S	4.8	S	S	89.7	S
Computer and information scientist	100.0	S	14.7	S	S	82.0	S
Mathematical scientist	100.0	S	S	S	S	83.4	S
Physical scientist	100.0	S	8.4	S	S	88.3	S
Psychologist	100.0	S	0.8	1.2	2.4	94.4	1.1
Social scientist	100.0	S	S	S	S	95.6	S
Engineering occupations	100.0	S	7.1	S	3.7	86.7	S
S&E-related occupations	100.0	S	15.7	S	S	81.2	S
Non-S&E occupations	100.0	S	7.4	2.1	1.9	86.9	1.3
Other	100.0	S	18.0	1.7	6.7	72.7	S
Science occupations	100.0	S	15.1	S	5.1	77.6	S
Biological, agricultural, and other life scientist	100.0	S	S	S	S	64.7	S
Computer and information scientist	100.0	S	S	S	S	S	S
Mathematical scientist	100.0	S	S	S	S	S	S
Physical scientist	100.0	S	S	S	S	97.6	S
Psychologist	100.0	S	S	S	S	97.9	S
Social scientist	100.0	S	18.2	S	8.4	73.1	S
Engineering occupations	100.0	S	S	S	22.2	67.3	S
S&E-related occupations	100.0	S	19.8	S	S	77.7	S
Non-S&E occupations	100.0	S	27.9	S	6.7	60.8	S

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 40. Employed doctoral scientists and engineers, by occupation and primary or secondary work activity: 2003

Occupation	Total	Research and development					Computer applications	Management, sales, administration	Professional services	Teaching	Other
		Any R&D	Applied research	Basic research	Design	Development					
	Number										
All occupations	593,300	371,830	194,380	141,240	38,060	86,330	56,280	241,190	95,630	183,650	35,700
Science occupations	352,960	242,370	125,710	118,440	15,460	40,770	36,950	112,750	55,730	128,330	18,390
Biological, agricultural, and other life scientist	104,650	87,700	45,510	51,940	2,420	12,270	4,250	40,250	6,050	28,670	5,370
Agricultural/food scientist	8,200	7,000	5,510	1,910	260	2,240	540	3,510	520	370	800
Biochemist/biophysicist	13,920	13,380	6,500	8,500	460	2,810	750	6,200	240	240	550
Biological scientist	18,390	16,780	9,390	10,590	490	1,770	960	8,340	940	580	910
Forestry/conservation scientist	1,390	1,220	1,040	280	150	230	90	580	110	S	180
Medical scientist	28,860	26,270	15,940	14,190	830	4,180	1,340	12,800	2,830	1,040	1,630
Postsecondary teacher, agricultural/other natural sciences	4,410	3,230	2,540	740	S	60	S	920	210	3,980	120
Postsecondary teacher, biological sciences	24,280	15,390	2,240	13,000	100	260	190	5,690	560	22,380	900
Other biological/agricultural/life scientist	5,200	4,440	2,340	2,720	130	720	330	2,220	650	90	290
Computer and information scientist	34,410	21,250	9,080	4,110	4,920	7,090	20,010	8,730	580	7,450	1,530
Computer/information scientist	26,770	16,680	6,930	1,610	4,910	6,990	18,650	7,550	530	500	1,170
Postsecondary teacher, computer science	7,640	4,570	2,150	2,500	S	100	1,360	1,180	60	6,950	350
Mathematical scientist	22,460	16,090	7,600	8,040	1,260	1,630	3,500	4,640	800	13,520	840
Mathematical scientist	8,830	7,570	5,660	1,550	1,210	1,450	3,190	2,450	480	470	260
Postsecondary teacher, mathematics/statistics	13,640	8,520	1,940	6,490	S	180	310	2,190	320	13,040	580
Physical scientist	73,730	59,040	31,050	27,690	5,410	15,120	6,920	20,630	1,920	25,090	5,550
Chemist, except biochemist	23,700	20,860	15,310	4,810	1,530	9,930	1,120	9,080	520	410	2,440
Earth/atmospheric/ocean scientist	9,010	8,090	4,970	4,210	750	1,200	2,150	2,530	360	250	630
Physicist/astronomer	13,650	12,450	6,600	5,190	2,730	3,230	2,810	3,460	400	420	860
Postsecondary teacher, chemistry	11,400	6,390	1,060	5,250	90	90	200	2,630	190	10,930	690
Postsecondary teacher, physics	7,810	5,100	540	4,420	110	120	390	1,060	190	7,410	490
Postsecondary teacher, other physical sciences	6,020	4,520	1,320	3,180	S	S	210	1,070	S	5,620	130
Other physical scientist	2,130	1,630	1,250	640	190	500	S	810	210	70	320
Psychologist	67,110	21,690	12,560	8,970	630	2,120	910	25,100	42,820	20,970	2,190
Psychologist	49,600	11,300	8,390	2,760	610	1,820	770	22,120	40,740	4,440	1,630
Postsecondary teacher, psychology	17,510	10,390	4,170	6,200	S	290	140	2,980	2,070	16,530	550
Social scientist	50,590	36,600	19,920	17,690	820	2,540	1,370	13,390	3,560	32,630	2,910
Economist	7,720	6,210	5,210	1,650	490	880	640	3,140	1,350	360	430
Political scientist	1,450	980	800	290	S	60	S	700	290	180	160
Postsecondary teacher, economics	8,410	6,130	3,520	2,700	S	80	S	1,160	210	7,920	350
Postsecondary teacher, political science	8,470	5,510	1,370	3,990	S	200	90	1,470	180	8,090	540
Postsecondary teacher, sociology	7,140	4,920	1,380	3,500	S	150	S	1,200	140	6,910	300
Postsecondary teacher, other social sciences	9,010	5,950	2,100	3,690	S	200	70	1,530	250	8,700	530
Sociologist/anthropologist	4,130	3,480	2,600	1,400	90	250	180	1,990	530	360	240
Other social scientist	4,280	3,410	2,940	470	180	730	300	2,200	610	120	360
Engineering occupations	77,000	65,250	35,740	8,330	16,830	28,770	10,770	22,480	2,890	16,960	4,720

TABLE 40. Employed doctoral scientists and engineers, by occupation and primary or secondary work activity: 2003

Occupation	Total	Research and development					Computer applications	Management, sales, administration	Professional services	Teaching	Other
		Any R&D	Applied research	Basic research	Design	Development					
Aerospace/aeronautical/astronautical engineer	4,050	3,650	1,980	350	1,190	1,770	1,140	1,070	110	60	200
Chemical engineer	7,010	6,460	3,580	470	1,900	3,880	780	2,040	260	50	600
Civil/architectural/sanitary engineer	3,780	2,790	1,250	150	1,260	760	720	1,870	540	100	200
Electrical engineer	16,550	15,280	6,870	980	5,240	9,360	3,460	4,600	200	100	1,090
Materials/metallurgical engineer	1,340	930	550	S	390	300	210	660	80	S	300
Mechanical engineer	8,570	7,920	3,600	810	2,750	4,580	1,420	2,440	330	220	290
Postsecondary teacher, engineering	17,380	12,640	8,570	3,730	370	460	740	3,140	140	16,190	420
Other engineer	18,330	15,570	9,340	1,850	3,740	7,650	2,290	6,670	1,230	240	1,630
Science and engineering-related occupations	64,650	31,780	16,630	8,460	2,460	6,620	3,630	34,190	19,060	21,380	3,030
Health-related occupation, except postsecondary teacher	17,050	5,370	3,450	1,500	350	890	230	6,180	13,290	2,780	830
Postsecondary teacher, health and related sciences	17,330	10,620	5,820	5,000	70	230	300	3,660	2,930	15,140	540
S&E manager	23,060	12,850	6,280	1,380	1,270	4,240	1,040	22,480	2,580	140	1,070
S&E precollege teacher	3,240	340	100	150	S	60	90	800	50	3,200	180
S&E technician/technologist	3,560	2,370	890	400	620	1,120	1,930	880	100	120	310
Other S&E-related occupation	410	240	110	S	110	80	50	190	110	S	100
Non-science and engineering occupations	98,700	32,430	16,290	6,000	3,300	10,160	4,920	71,760	17,950	16,970	9,570
Arts/humanities-related occupation	5,210	1,710	900	380	230	640	320	1,940	2,830	250	660
Management-related occupation	15,120	4,940	1,870	400	1,340	1,980	1,720	11,620	3,530	670	1,540
Non-S&E manager	44,320	14,610	7,410	1,970	1,270	5,340	1,540	41,330	3,100	1,630	3,320
Non-S&E postsecondary teacher	11,860	7,040	4,010	2,890	S	600	200	2,750	480	10,780	680
Non-S&E precollege/other teacher	2,400	450	140	70	100	150	60	690	460	2,040	160
Sales/marketing occupation	7,810	1,840	1,070	70	110	810	620	6,870	1,060	270	490
Social service-related occupation	3,390	490	270	70	S	190	S	1,720	2,300	840	430
Other non-S&E occupation	8,130	1,220	520	110	220	440	370	4,610	4,050	440	2,120
						Percent					
All occupations	100.0	62.7	32.8	23.8	6.4	14.6	9.5	40.7	16.1	31.0	6.0
Science occupations	100.0	68.7	35.6	33.6	4.4	11.6	10.5	31.9	15.8	36.4	5.2
Biological, agricultural, and other life scientist	100.0	83.8	43.5	49.6	2.3	11.7	4.1	38.5	5.8	27.4	5.1
Agricultural/food scientist	100.0	85.3	67.1	23.3	3.2	27.3	6.6	42.8	6.4	4.5	9.7
Biochemist/biophysicist	100.0	96.1	46.7	61.1	3.3	20.2	5.4	44.5	1.7	1.7	4.0
Biological scientist	100.0	91.2	51.0	57.6	2.7	9.6	5.2	45.3	5.1	3.1	5.0
Forestry/conservation scientist	100.0	88.0	75.3	20.1	10.6	16.2	6.3	41.6	7.9	S	12.7
Medical scientist	100.0	91.0	55.2	49.2	2.9	14.5	4.7	44.4	9.8	3.6	5.6
Postsecondary teacher, agricultural/other natural sciences	100.0	73.2	57.7	16.9	S	1.4	S	20.8	4.7	90.1	2.7
Postsecondary teacher, biological sciences	100.0	63.4	9.2	53.5	0.4	1.1	0.8	23.4	2.3	92.2	3.7
Other biological/agricultural/life scientist	100.0	85.3	45.1	52.3	2.5	13.9	6.4	42.6	12.5	1.8	5.5
Computer and information scientist	100.0	61.8	26.4	11.9	14.3	20.6	58.1	25.4	1.7	21.7	4.4
Computer/information scientist	100.0	62.3	25.9	6.0	18.4	26.1	69.7	28.2	2.0	1.9	4.4
Postsecondary teacher, computer science	100.0	59.8	28.2	32.8	S	1.3	17.8	15.4	0.8	91.0	4.6

TABLE 40. Employed doctoral scientists and engineers, by occupation and primary or secondary work activity: 2003

Occupation	Total	Research and development					Computer applications	Management, sales, administration	Professional services	Teaching	Other
		Any R&D	Applied research	Basic research	Design	Development					
Mathematical scientist	100.0	71.6	33.8	35.8	5.6	7.3	15.6	20.7	3.6	60.2	3.7
Mathematical scientist	100.0	85.7	64.1	17.6	13.7	16.4	36.1	27.8	5.4	5.4	2.9
Postsecondary teacher, mathematics/statistics	100.0	62.5	14.2	47.6	S	1.3	2.3	16.1	2.4	95.7	4.3
Physical scientist	100.0	80.1	42.1	37.6	7.3	20.5	9.4	28.0	2.6	34.0	7.5
Chemist, except biochemist	100.0	88.0	64.6	20.3	6.5	41.9	4.7	38.3	2.2	1.7	10.3
Earth/atmospheric/ocean scientist	100.0	89.8	55.2	46.7	8.3	13.4	23.9	28.1	4.0	2.7	7.0
Physicist/astronomer	100.0	91.2	48.3	38.0	20.0	23.7	20.6	25.3	2.9	3.1	6.3
Postsecondary teacher, chemistry	100.0	56.1	9.3	46.0	0.8	0.8	1.7	23.0	1.6	95.8	6.0
Postsecondary teacher, physics	100.0	65.2	6.9	56.6	1.3	1.5	5.1	13.6	2.5	94.8	6.3
Postsecondary teacher, other physical sciences	100.0	75.1	21.9	52.8	S	S	3.5	17.7	S	93.3	2.1
Other physical scientist	100.0	76.5	58.6	29.8	9.0	23.4	S	37.8	9.9	3.1	14.9
Psychologist	100.0	32.3	18.7	13.4	0.9	3.2	1.4	37.4	63.8	31.2	3.3
Psychologist	100.0	22.8	16.9	5.6	1.2	3.7	1.6	44.6	82.1	8.9	3.3
Postsecondary teacher, psychology	100.0	59.3	23.8	35.4	0.0	1.7	0.8	17.0	11.8	94.4	3.2
Social scientist	100.0	72.3	39.4	35.0	1.6	5.0	2.7	26.5	7.0	64.5	5.7
Economist	100.0	80.5	67.6	21.4	6.4	11.3	8.3	40.8	17.5	4.6	5.6
Political scientist	100.0	67.3	55.1	19.8	S	3.9	S	48.4	20.2	12.7	11.0
Postsecondary teacher, economics	100.0	72.9	41.8	32.1	S	1.0	S	13.7	2.4	94.1	4.1
Postsecondary teacher, political science	100.0	65.1	16.1	47.2	S	2.4	1.1	17.3	2.1	95.6	6.4
Postsecondary teacher, sociology	100.0	68.9	19.3	49.0	S	2.2	S	16.8	2.0	96.8	4.2
Postsecondary teacher, other social sciences	100.0	66.1	23.3	41.0	S	2.2	0.8	16.9	2.7	96.6	5.9
Sociologist/anthropologist	100.0	84.3	63.1	34.0	2.2	6.1	4.4	48.2	12.9	8.7	5.8
Other social scientist	100.0	79.8	68.7	10.9	4.3	17.0	7.0	51.5	14.3	2.7	8.4
Engineering occupations	100.0	84.7	46.4	10.8	21.9	37.4	14.0	29.2	3.8	22.0	6.1
Aerospace/aeronautical/astronautical engineer	100.0	90.1	48.9	8.7	29.3	43.7	28.1	26.4	2.6	1.4	4.8
Chemical engineer	100.0	92.2	51.1	6.7	27.1	55.4	11.2	29.1	3.7	0.7	8.6
Civil/architectural/sanitary engineer	100.0	74.0	33.0	4.0	33.3	20.3	19.0	49.6	14.4	2.8	5.2
Electrical engineer	100.0	92.3	41.5	5.9	31.7	56.6	20.9	27.8	1.2	0.6	6.6
Materials/metallurgical engineer	100.0	69.3	40.7	S	29.2	22.6	15.9	49.0	6.3	S	22.4
Mechanical engineer	100.0	92.5	42.0	9.4	32.1	53.5	16.6	28.4	3.8	2.5	3.4
Postsecondary teacher, engineering	100.0	72.7	49.3	21.4	2.1	2.6	4.3	18.1	0.8	93.1	2.4
Other engineer	100.0	84.9	50.9	10.1	20.4	41.7	12.5	36.4	6.7	1.3	8.9
Science and engineering-related occupations	100.0	49.2	25.7	13.1	3.8	10.2	5.6	52.9	29.5	33.1	4.7
Health-related occupation, except postsecondary teacher	100.0	31.5	20.2	8.8	2.0	5.2	1.3	36.3	77.9	16.3	4.8
Postsecondary teacher, health and related sciences	100.0	61.2	33.6	28.9	0.4	1.4	1.7	21.1	16.9	87.4	3.1
S&E manager	100.0	55.7	27.2	6.0	5.5	18.4	4.5	97.5	11.2	0.6	4.7
S&E precollege teacher	100.0	10.5	2.9	4.6	S	1.9	2.9	24.7	1.7	99.0	5.4
S&E technician/technologist	100.0	66.5	24.9	11.3	17.5	31.5	54.1	24.6	2.7	3.4	8.8
Other S&E-related occupation	100.0	58.4	26.6	S	26.8	20.1	12.3	47.4	26.1	S	23.4

TABLE 40. Employed doctoral scientists and engineers, by occupation and primary or secondary work activity: 2003

Occupation	Total	Research and development					Computer applications	Management, sales, administration	Professional services	Teaching	Other
		Any R&D	Applied research	Basic research	Design	Development					
Non-science and engineering occupations	100.0	32.9	16.5	6.1	3.3	10.3	5.0	72.7	18.2	17.2	9.7
Arts/humanities-related occupation	100.0	32.8	17.3	7.3	4.3	12.2	6.2	37.3	54.4	4.8	12.6
Management-related occupation	100.0	32.6	12.4	2.7	8.9	13.1	11.4	76.8	23.3	4.4	10.2
Non-S&E manager	100.0	33.0	16.7	4.4	2.9	12.1	3.5	93.3	7.0	3.7	7.5
Non-S&E postsecondary teacher	100.0	59.4	33.8	24.4	S	5.0	1.7	23.2	4.1	90.9	5.7
Non-S&E precollege/other teacher	100.0	18.7	5.9	2.8	4.3	6.1	2.4	28.9	19.3	85.0	6.8
Sales/marketing occupation	100.0	23.6	13.7	1.0	1.4	10.4	7.9	87.9	13.5	3.4	6.3
Social service-related occupation	100.0	14.4	7.9	2.2	S	5.7	S	50.8	67.8	24.7	12.8
Other non-S&E occupation	100.0	15.0	6.4	1.4	2.8	5.5	4.6	56.7	49.9	5.4	26.0

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

NOTES: Numbers are rounded to nearest 10. Detail may exceed total due to multiple responses.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 41. Employed doctoral scientists and engineers, by employer location and broad occupation: 2003

Employer location	Total	Science occupations							Engineering occupations	Science and engineering-related occupations	Non-science and engineering occupations
		Total	Biological, agricultural, and other life scientist	Computer and information scientist	Mathematical scientist	Physical scientist	Psychologist	Social scientist			
	Number										
All locations	593,300	352,960	104,650	34,410	22,460	73,730	67,110	50,590	77,000	64,650	98,700
New England	49,800	31,000	9,680	3,230	1,630	5,870	6,130	4,440	5,660	5,220	7,920
Connecticut	9,800	6,210	1,980	390	150	1,370	1,420	900	910	1,260	1,420
Maine	2,150	1,510	450	60	100	260	420	230	190	90	360
Massachusetts	30,210	18,820	6,340	2,160	1,160	3,410	3,320	2,430	3,370	3,160	4,860
New Hampshire	2,640	1,520	360	370	S	320	280	150	530	140	450
Rhode Island	3,190	1,880	290	180	190	320	450	440	350	400	570
Vermont	1,820	1,060	250	80	S	180	240	290	310	180	270
Middle Atlantic	93,540	58,140	14,710	6,580	4,150	12,020	12,600	8,090	9,390	10,110	15,900
New Jersey	20,950	12,380	3,010	2,300	920	3,080	1,870	1,200	2,280	2,480	3,810
New York	44,700	28,020	6,810	2,890	2,020	4,680	7,300	4,320	3,870	4,900	7,910
Pennsylvania	27,880	17,740	4,890	1,400	1,210	4,250	3,420	2,570	3,240	2,730	4,170
East North Central	78,340	46,540	12,840	3,910	3,230	9,680	9,370	7,520	11,260	8,470	12,070
Illinois	22,420	13,090	3,620	1,420	980	2,660	2,130	2,280	2,450	2,530	4,350
Indiana	9,560	5,750	1,550	320	470	1,060	1,200	1,150	1,260	1,040	1,510
Michigan	17,140	9,690	2,410	810	770	2,010	2,160	1,540	3,540	1,960	1,950
Ohio	20,850	12,760	3,760	970	720	2,920	2,590	1,800	3,030	2,070	2,990
Wisconsin	8,370	5,240	1,490	390	290	1,030	1,280	760	980	870	1,280
West North Central	33,640	19,830	7,520	750	1,210	3,440	3,860	3,040	3,780	4,620	5,410
Iowa	4,660	2,900	1,030	120	340	400	430	600	390	580	780
Kansas	3,990	2,480	890	190	120	230	570	470	530	360	610
Minnesota	11,090	6,090	2,070	220	240	1,320	1,390	850	1,330	1,730	1,940
Missouri	9,010	5,060	2,030	120	360	980	880	680	1,080	1,450	1,430
Nebraska	1,070	720	390	S	50	120	90	S	160	110	80
North Dakota	2,800	1,920	890	50	50	340	340	240	220	240	420
South Dakota	1,020	660	210	S	50	60	150	150	80	140	140
South Atlantic	113,580	69,520	21,240	6,010	5,110	13,550	11,520	12,090	11,480	12,260	20,330
Delaware	2,980	1,640	570	170	S	590	180	100	490	310	540
District of Columbia	13,770	8,170	990	350	390	1,290	890	4,260	780	1,050	3,770
Florida	15,990	9,230	2,630	890	600	1,490	2,330	1,290	2,290	1,790	2,680
Georgia	12,190	7,850	2,740	590	410	1,370	1,360	1,380	890	1,340	2,100
Maryland	25,310	16,250	6,710	1,310	1,270	3,430	2,100	1,420	2,370	2,980	3,710
North Carolina	17,360	10,710	4,110	910	920	1,980	1,770	1,020	1,070	2,330	3,250
South Carolina	5,200	3,130	940	90	280	690	600	530	710	660	700
Virginia	18,800	11,270	2,190	1,700	1,170	2,350	2,080	1,800	2,560	1,580	3,390
West Virginia	1,980	1,270	360	S	60	340	210	290	310	210	190

TABLE 41. Employed doctoral scientists and engineers, by employer location and broad occupation: 2003

Employer location	Total	Science occupations							Engineering occupations	Science and engineering-related occupations	Non-science and engineering occupations
		Total	Biological, agricultural, and other life scientist	Computer and information scientist	Mathematical scientist	Physical scientist	Psychologist	Social scientist			
East South Central	22,550	13,280	4,710	790	880	2,550	2,440	1,910	3,120	2,510	3,630
Alabama	5,800	3,290	1,120	260	200	620	620	470	890	650	960
Kentucky	4,730	3,030	1,020	170	370	270	610	590	230	680	780
Mississippi	3,160	1,810	740	60	S	490	190	280	480	380	490
Tennessee	8,870	5,150	1,830	290	270	1,170	1,020	570	1,520	800	1,400
West South Central	46,070	26,170	8,170	2,590	1,610	5,780	4,660	3,370	7,480	5,290	7,130
Arkansas	2,810	1,790	810	60	70	300	160	390	220	320	490
Louisiana	5,400	3,340	1,300	120	260	550	760	340	560	720	770
Oklahoma	4,690	3,040	770	250	80	700	760	480	590	380	680
Texas	33,180	18,000	5,280	2,150	1,190	4,220	2,980	2,160	6,110	3,880	5,190
Mountain	39,200	22,720	5,890	1,670	1,580	6,750	3,970	2,860	6,240	3,830	6,420
Arizona	7,620	4,180	990	320	250	1,010	980	630	1,500	610	1,330
Colorado	12,200	7,590	1,820	650	550	2,240	1,430	900	1,620	1,010	1,980
Idaho	2,450	1,320	510	110	130	270	240	70	440	290	410
Montana	1,850	1,380	490	S	190	210	300	160	150	210	110
New Mexico	8,140	4,220	930	310	170	2,100	350	370	1,750	970	1,200
Nevada	2,100	1,350	270	50	130	460	260	180	210	200	350
Utah	4,190	2,180	710	170	110	360	380	440	550	520	940
Wyoming	650	500	180	S	60	100	S	110	S	S	100
Pacific	113,800	64,170	19,230	8,870	2,960	13,820	12,150	7,140	18,370	12,050	19,210
Alaska	1,050	680	300	90	S	170	S	80	100	120	150
California	86,490	47,990	13,330	6,830	2,160	11,050	9,640	4,980	14,920	8,850	14,730
Hawaii	3,010	1,990	670	150	S	410	260	470	220	380	430
Oregon	7,760	4,290	1,720	540	250	630	620	530	1,310	770	1,400
Washington	15,480	9,220	3,220	1,270	510	1,560	1,580	1,080	1,820	1,940	2,500
Puerto Rico	1,800	1,170	430	S	70	230	340	90	140	150	330
Other U.S. territories and other areas	980	420	230	S	S	S	70	S	80	130	350
						Percent					
All locations	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New England	8.4	8.8	9.3	9.4	7.3	8.0	9.1	8.8	7.4	8.1	8.0
Connecticut	1.7	1.8	1.9	1.1	0.7	1.9	2.1	1.8	1.2	1.9	1.4
Maine	0.4	0.4	0.4	0.2	0.4	0.4	0.6	0.5	0.2	0.1	0.4
Massachusetts	5.1	5.3	6.1	6.3	5.2	4.6	4.9	4.8	4.4	4.9	4.9
New Hampshire	0.4	0.4	0.3	1.1	S	0.4	0.4	0.3	0.7	0.2	0.5
Rhode Island	0.5	0.5	0.3	0.5	0.9	0.4	0.7	0.9	0.5	0.6	0.6

TABLE 41. Employed doctoral scientists and engineers, by employer location and broad occupation: 2003

Employer location	Total	Science occupations									
		Total	Biological, agricultural, and other life scientist	Computer and information scientist	Mathematical scientist	Physical scientist	Psychologist	Social scientist	Engineering occupations	Science and engineering-related occupations	Non-science and engineering occupations
Vermont	0.3	0.3	0.2	0.2	S	0.2	0.4	0.6	0.4	0.3	0.3
Middle Atlantic	15.8	16.5	14.1	19.1	18.5	16.3	18.8	16.0	12.2	15.6	16.1
New Jersey	3.5	3.5	2.9	6.7	4.1	4.2	2.8	2.4	3.0	3.8	3.9
New York	7.5	7.9	6.5	8.4	9.0	6.3	10.9	8.5	5.0	7.6	8.0
Pennsylvania	4.7	5.0	4.7	4.1	5.4	5.8	5.1	5.1	4.2	4.2	4.2
East North Central	13.2	13.2	12.3	11.4	14.4	13.1	14.0	14.9	14.6	13.1	12.2
Illinois	3.8	3.7	3.5	4.1	4.3	3.6	3.2	4.5	3.2	3.9	4.4
Indiana	1.6	1.6	1.5	0.9	2.1	1.4	1.8	2.3	1.6	1.6	1.5
Michigan	2.9	2.7	2.3	2.3	3.4	2.7	3.2	3.0	4.6	3.0	2.0
Ohio	3.5	3.6	3.6	2.8	3.2	4.0	3.9	3.5	3.9	3.2	3.0
Wisconsin	1.4	1.5	1.4	1.1	1.3	1.4	1.9	1.5	1.3	1.3	1.3
West North Central	5.7	5.6	7.2	2.2	5.4	4.7	5.7	6.0	4.9	7.1	5.5
Iowa	0.8	0.8	1.0	0.3	1.5	0.5	0.6	1.2	0.5	0.9	0.8
Kansas	0.7	0.7	0.8	0.6	0.6	0.3	0.9	0.9	0.7	0.6	0.6
Minnesota	1.9	1.7	2.0	0.6	1.1	1.8	2.1	1.7	1.7	2.7	2.0
Missouri	1.5	1.4	1.9	0.4	1.6	1.3	1.3	1.3	1.4	2.2	1.4
Nebraska	0.2	0.2	0.4	S	0.2	0.2	0.1	S	0.2	0.2	0.1
North Dakota	0.5	0.5	0.9	0.2	0.2	0.5	0.5	0.5	0.3	0.4	0.4
South Dakota	0.2	0.2	0.2	S	0.2	0.1	0.2	0.3	0.1	0.2	0.1
South Atlantic	19.1	19.7	20.3	17.5	22.8	18.4	17.2	23.9	14.9	19.0	20.6
Delaware	0.5	0.5	0.5	0.5	S	0.8	0.3	0.2	0.6	0.5	0.6
District of Columbia	2.3	2.3	0.9	1.0	1.7	1.8	1.3	8.4	1.0	1.6	3.8
Florida	2.7	2.6	2.5	2.6	2.7	2.0	3.5	2.5	3.0	2.8	2.7
Georgia	2.1	2.2	2.6	1.7	1.8	1.9	2.0	2.7	1.2	2.1	2.1
Maryland	4.3	4.6	6.4	3.8	5.7	4.7	3.1	2.8	3.1	4.6	3.8
North Carolina	2.9	3.0	3.9	2.7	4.1	2.7	2.6	2.0	1.4	3.6	3.3
South Carolina	0.9	0.9	0.9	0.3	1.2	0.9	0.9	1.1	0.9	1.0	0.7
Virginia	3.2	3.2	2.1	4.9	5.2	3.2	3.1	3.6	3.3	2.4	3.4
West Virginia	0.3	0.4	0.3	S	0.3	0.5	0.3	0.6	0.4	0.3	0.2
East South Central	3.8	3.8	4.5	2.3	3.9	3.5	3.6	3.8	4.1	3.9	3.7
Alabama	1.0	0.9	1.1	0.8	0.9	0.8	0.9	0.9	1.2	1.0	1.0
Kentucky	0.8	0.9	1.0	0.5	1.6	0.4	0.9	1.2	0.3	1.1	0.8
Mississippi	0.5	0.5	0.7	0.2	S	0.7	0.3	0.5	0.6	0.6	0.5
Tennessee	1.5	1.5	1.7	0.9	1.2	1.6	1.5	1.1	2.0	1.2	1.4
West South Central	7.8	7.4	7.8	7.5	7.1	7.8	7.0	6.7	9.7	8.2	7.2
Arkansas	0.5	0.5	0.8	0.2	0.3	0.4	0.2	0.8	0.3	0.5	0.5
Louisiana	0.9	0.9	1.2	0.4	1.1	0.8	1.1	0.7	0.7	1.1	0.8

TABLE 41. Employed doctoral scientists and engineers, by employer location and broad occupation: 2003

Employer location	Total	Science occupations							Engineering occupations	Science and engineering-related occupations	Non-science and engineering occupations
		Total	Biological, agricultural, and other life scientist	Computer and information scientist	Mathematical scientist	Physical scientist	Psychologist	Social scientist			
Oklahoma	0.8	0.9	0.7	0.7	0.4	0.9	1.1	0.9	0.8	0.6	0.7
Texas	5.6	5.1	5.1	6.3	5.3	5.7	4.4	4.3	7.9	6.0	5.3
Mountain	6.6	6.4	5.6	4.8	7.1	9.2	5.9	5.7	8.1	5.9	6.5
Arizona	1.3	1.2	0.9	0.9	1.1	1.4	1.5	1.2	1.9	0.9	1.4
Colorado	2.1	2.2	1.7	1.9	2.5	3.0	2.1	1.8	2.1	1.6	2.0
Idaho	0.4	0.4	0.5	0.3	0.6	0.4	0.4	0.1	0.6	0.4	0.4
Montana	0.3	0.4	0.5	S	0.8	0.3	0.5	0.3	0.2	0.3	0.1
New Mexico	1.4	1.2	0.9	0.9	0.8	2.8	0.5	0.7	2.3	1.5	1.2
Nevada	0.4	0.4	0.3	0.2	0.6	0.6	0.4	0.4	0.3	0.3	0.4
Utah	0.7	0.6	0.7	0.5	0.5	0.5	0.6	0.9	0.7	0.8	1.0
Wyoming	0.1	0.1	0.2	S	0.3	0.1	S	0.2	S	S	0.1
Pacific	19.2	18.2	18.4	25.8	13.2	18.7	18.1	14.1	23.9	18.6	19.5
Alaska	0.2	0.2	0.3	0.3	S	0.2	S	0.2	0.1	0.2	0.2
California	14.6	13.6	12.7	19.9	9.6	15.0	14.4	9.9	19.4	13.7	14.9
Hawaii	0.5	0.6	0.6	0.4	S	0.6	0.4	0.9	0.3	0.6	0.4
Oregon	1.3	1.2	1.6	1.6	1.1	0.9	0.9	1.0	1.7	1.2	1.4
Washington	2.6	2.6	3.1	3.7	2.3	2.1	2.4	2.1	2.4	3.0	2.5
Puerto Rico	0.3	0.3	0.4	S	0.3	0.3	0.5	0.2	0.2	0.2	0.3
Other U.S. territories and other areas	0.2	0.1	0.2	S	S	S	0.1	S	0.1	0.2	0.4

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Because survey sample design does not include geography, reliability of estimates in some states may be poor due to small sample size. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 42. Employed doctoral scientists and engineers, by selected demographic characteristics and broad field of doctorate: 2003 (corrected January 2011)
(Percent)

Characteristic	Total	Science								
		Total	Biological, agricultural, and environmental life sciences	Computer and information sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Health
Number employed	593,300	468,570	145,760	11,960	28,330	112,670	91,410	78,450	101,500	23,230
All characteristics	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex										
Male	72.8	70.4	69.4	84.6	83.9	85.0	50.4	67.5	91.3	41.6
Female	27.2	29.6	30.6	15.4	16.1	15.0	49.6	32.5	8.7	58.4
Race/ethnicity										
American Indian/Alaska Native	0.2	0.2	0.2	S	S	0.2	0.2	0.3	S	S
Asian	16.0	12.7	15.0	31.3	20.1	17.2	2.5	8.5	32.4	11.1
Black	2.7	2.7	2.2	2.1	2.1	1.5	3.8	4.7	1.9	4.8
Hispanic	2.7	2.8	2.9	2.2	2.2	2.2	3.6	3.1	2.3	2.5
White	77.2	80.3	78.6	62.7	74.8	77.8	88.6	82.0	62.2	80.0
Other race[a]	1.2	1.3	1.3	1.6	0.8	1.2	1.3	1.4	1.1	1.5
Age										
Under 35	10.1	9.7	10.4	16.7	10.5	11.3	8.4	6.5	12.4	7.8
35–39	13.4	12.8	14.5	19.7	14.1	13.3	10.2	10.3	16.8	10.5
40–44	15.0	14.3	15.4	24.5	11.6	16.0	12.2	11.6	18.7	12.3
45–49	15.6	15.9	17.8	18.5	12.6	15.2	15.3	14.8	14.3	15.6
50–54	15.2	15.8	15.7	12.9	13.5	12.4	19.3	17.9	10.9	23.0
55–59	14.3	14.9	12.5	6.2	15.9	13.5	18.6	17.9	10.8	17.0
60–64	10.5	10.8	9.0	1.3	14.9	11.6	9.5	14.4	9.5	9.5
65–75	5.9	5.9	4.7	S	7.0	6.7	6.4	6.7	6.5	4.3
Citizenship status										
U.S. citizen	90.0	91.7	91.2	75.6	86.2	90.3	98.0	91.8	81.7	91.9
Native born	75.2	79.5	78.4	54.4	67.8	74.3	93.0	81.3	53.8	81.1
Naturalized	14.8	12.2	12.8	21.2	18.4	16.0	5.0	10.4	27.9	10.8
Non-U.S. citizen	10.0	8.3	8.8	24.4	13.8	9.7	2.0	8.2	18.3	8.1
Permanent resident	6.7	5.6	5.9	17.3	9.0	6.2	1.5	5.6	12.2	5.4
Temporary resident	3.3	2.7	2.9	7.1	4.8	3.5	0.5	2.6	6.1	2.7
Years since doctorate										
5 or less	19.5	18.5	19.5	31.3	16.1	16.3	18.3	19.2	21.6	29.0
6–10	18.1	17.1	18.2	30.6	16.0	16.2	16.3	15.8	21.6	23.0
11–15	14.7	14.4	14.8	20.7	12.8	14.4	14.6	13.1	15.7	15.9
16–20	12.9	13.5	13.4	11.5	10.8	13.0	15.5	13.3	10.6	11.8
21–25	11.5	12.3	12.4	6.0	10.6	10.9	13.8	13.8	8.1	9.9
More than 25	23.3	24.1	21.6	S	33.6	29.2	21.5	24.8	22.3	10.4
Place of birth										
United States	74.6	78.8	77.8	52.8	66.4	73.7	92.3	80.7	53.6	80.8
Europe	4.3	4.3	3.5	7.2	8.5	5.6	2.5	4.3	4.6	3.0
Asia	16.8	12.8	14.5	33.2	21.1	17.2	2.5	9.3	36.3	11.6
North America	1.0	1.0	1.0	1.7	0.6	0.9	1.1	1.1	0.9	0.8
Central America	0.4	0.4	0.6	S	S	0.4	0.3	0.3	0.4	S
Caribbean	0.4	0.4	0.2	S	0.2	0.3	0.6	0.7	0.5	0.5
South America	0.8	0.7	0.8	1.7	1.0	0.6	0.4	1.1	0.9	0.6
Africa	1.2	1.0	1.1	1.3	1.4	0.9	0.2	1.8	2.1	1.6
Oceania	0.6	0.5	0.5	1.8	0.7	0.5	0.2	0.7	0.8	0.9

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 43. Employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2003 (corrected January 2011)
(Percent)

Characteristic	Total	Science occupations							Engineering occupations	Science and engineering -related occupations	Non-science and engineering occupations
		Total	Biological, agricultural, and other life scientist	Computer and information scientist	Mathematical scientist	Physical scientist	Psychologist	Social scientist			
Number employed	593,300	352,960	104,650	34,410	22,460	73,730	67,110	50,590	77,000	64,650	98,700
All characteristics	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex											
Male	72.8	70.3	67.9	86.5	79.4	85.1	48.2	67.9	91.0	67.6	71.2
Female	27.2	29.7	32.1	13.5	20.6	14.9	51.8	32.1	9.0	32.4	28.8
Race/ethnicity											
American Indian/Alaska Native	0.2	0.2	0.2	S	S	0.2	0.2	0.2	0.1	0.1	0.2
Asian	16.0	14.6	17.3	33.2	20.7	15.6	2.4	8.7	30.5	13.9	11.1
Black	2.7	2.5	2.0	1.5	2.5	1.5	3.4	4.7	1.8	2.9	3.7
Hispanic	2.7	2.9	3.0	1.8	2.8	2.5	3.7	3.2	2.5	2.2	2.6
White	77.2	78.5	76.2	62.3	73.3	79.1	88.8	81.8	64.1	79.5	81.3
Other race[a]	1.2	1.3	1.3	1.3	0.6	1.3	1.5	1.3	1.1	1.3	1.1
Age											
Under 35	10.1	11.5	13.3	13.2	11.8	12.9	8.5	8.7	13.4	6.0	5.2
35–39	13.4	14.5	16.6	17.3	15.2	14.6	10.6	13.1	16.6	10.7	8.6
40–44	15.0	15.2	16.4	19.0	14.9	15.8	12.6	12.6	17.9	14.5	12.2
45–49	15.6	15.9	17.1	16.1	13.2	15.6	15.2	15.8	13.7	18.1	14.4
50–54	15.2	14.6	13.4	13.2	15.0	12.4	18.5	15.5	10.9	18.3	19.0
55–59	14.3	13.3	11.3	11.5	11.8	11.4	18.1	15.5	11.2	16.6	18.7
60–64	10.5	9.6	7.9	7.5	12.0	10.1	9.8	12.7	9.4	10.8	14.4
65–75	5.9	5.4	4.0	2.2	6.1	7.1	6.7	6.2	7.0	5.0	7.5
Citizenship status											
U.S. citizen	90.0	89.5	88.5	78.4	84.5	89.4	97.9	90.7	82.3	94.3	94.9
Native born	75.2	76.9	75.6	55.6	67.2	75.0	92.7	80.1	56.2	78.8	81.5
Naturalized	14.8	12.7	12.9	22.8	17.3	14.4	5.2	10.6	26.1	15.5	13.4
Non-U.S. citizen	10.0	10.5	11.5	21.6	15.5	10.6	2.1	9.3	17.7	5.7	5.1
Permanent resident	6.7	6.9	7.2	15.8	10.0	6.3	1.7	6.3	11.2	4.6	3.8
Temporary resident	3.3	3.6	4.3	5.8	5.6	4.2	0.4	3.0	6.5	1.2	1.3
Years since doctorate											
5 or less	19.5	21.7	24.7	24.4	20.0	19.9	18.0	22.2	22.3	15.3	11.9
6–10	18.1	18.4	19.3	24.7	17.6	16.5	17.1	17.1	21.3	18.2	14.6
11–15	14.7	14.7	15.5	14.9	14.9	14.5	15.0	12.9	14.8	15.5	14.1
16–20	12.9	12.8	11.9	10.7	12.0	13.4	14.9	12.9	10.8	14.9	13.5
21–25	11.5	11.0	10.1	10.1	9.0	9.9	14.1	11.9	8.0	13.4	14.8
More than 25	23.3	21.3	18.5	15.2	26.5	25.8	20.9	23.0	22.8	22.7	31.1

TABLE 43. Employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2003 (corrected January 2011)
(Percent)

Characteristic	Total	Science occupations									
		Total	Biological, agricultural, and other life scientist	Computer and information scientist	Mathematical scientist	Physical scientist	Psychologist	Social scientist	Engineering occupations	Science and engineering -related occupations	Non-science and engineering occupations
Place of birth											
United States	74.6	76.2	75.0	54.9	65.9	74.4	92.0	79.3	55.9	78.3	81.0
Europe	4.3	4.7	4.0	5.8	7.6	6.0	2.7	4.6	4.7	3.2	3.6
Asia	16.8	14.9	17.0	34.3	21.7	15.9	2.4	9.6	34.2	14.1	11.7
North America	1.0	1.1	1.0	1.1	1.0	0.9	1.1	1.5	0.8	1.1	0.7
Central America	0.4	0.4	0.5	0.3	S	0.4	0.3	0.4	0.4	0.4	0.2
Caribbean	0.4	0.4	0.3	0.3	S	0.3	0.6	0.6	0.3	0.4	0.5
South America	0.8	0.8	0.7	1.1	1.3	0.8	0.6	1.3	0.8	0.7	0.5
Africa	1.2	1.0	1.0	1.0	1.7	1.0	0.2	2.0	1.8	1.2	1.4
Oceania	0.6	0.5	0.5	1.2	0.7	0.4	0.2	0.7	0.9	0.7	0.4

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 44. Employed doctoral scientists and engineers, by selected demographic characteristics and citizenship status: 2003 (corrected January 2011)

(Percent)

Characteristic	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
Number employed	593,300	533,960	445,960	88,000	59,340	39,620	19,720
All characteristics	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex							
Male	72.8	72.4	71.3	77.8	77.2	77.3	76.9
Female	27.2	27.6	28.7	22.2	22.8	22.7	23.1
Race/ethnicity							
American Indian/Alaska Native	0.2	0.2	0.2	S	S	S	S
Asian	16.0	11.2	1.6	60.1	59.2	58.7	60.3
Black	2.7	2.6	2.3	3.8	3.4	3.1	4.1
Hispanic	2.7	2.5	2.1	4.5	4.8	4.7	5.1
White	77.2	82.2	92.5	29.9	31.9	33.0	29.6
Other race[a]	1.2	1.3	1.2	1.7	0.6	0.5	0.8
Age							
Under 35	10.1	8.0	8.8	4.2	28.7	18.0	50.2
35–39	13.4	11.4	11.5	10.8	31.4	32.1	30.1
40–44	15.0	14.4	13.2	20.3	20.2	24.0	12.5
45–49	15.6	16.2	15.5	19.8	10.0	12.8	4.2
50–54	15.2	16.4	16.6	15.6	4.7	6.0	2.2
55–59	14.3	15.6	16.2	12.3	2.4	3.5	0.4
60–64	10.5	11.5	11.8	9.8	1.9	2.6	0.4
65–75	5.9	6.5	6.4	7.3	0.7	1.0	S
Years since doctorate							
5 or less	19.5	15.7	16.8	10.1	53.3	36.7	86.8
6–10	18.1	17.0	16.0	22.2	28.2	37.2	10.2
11–15	14.7	15.3	14.1	21.2	9.7	13.8	1.4
16–20	12.9	14.0	13.9	14.4	3.4	4.9	0.3
21–25	11.5	12.5	12.9	10.6	2.5	3.1	1.3
More than 25	23.3	25.5	26.3	21.5	2.9	4.4	S
Place of birth							
United States	74.6	82.6	98.7	0.8	2.8	2.9	2.7
Europe	4.3	2.8	0.5	14.6	18.1	18.0	18.2
Asia	16.8	11.8	0.4	69.4	61.8	61.7	62.0
North America	1.0	0.6	0.2	2.9	4.0	4.6	2.9
Central America	0.4	0.3	0.1	1.2	1.5	1.4	1.8
Caribbean	0.4	0.4	S	2.1	0.8	0.8	0.7
South America	0.8	0.5	0.1	2.6	3.1	3.0	3.4
Africa	1.2	0.9	0.1	5.2	4.0	3.8	4.5
Oceania	0.6	0.2	S	1.0	3.9	3.8	4.0

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 45. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics and sector of employment: 2003 (corrected January 2011)

(Percent)

Characteristic	Total	Universities and 4-year colleges	Other educational institutions	Private-for-profit	Private not-for-profit	Federal government	State and local government	Self-employed	Other
Number employed	593,300	259,380	20,170	187,570	29,650	41,090	15,970	36,130	3,340
All characteristics	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex									
Male	72.8	70.2	58.4	81.7	63.4	76.4	69.5	59.0	73.0
Female	27.2	29.8	41.6	18.3	36.6	23.6	30.5	41.0	27.0
Race/ethnicity									
American Indian/Alaska Native	0.2	0.2	0.3	0.1	S	S	S	0.2	S
Asian	16.0	12.7	7.6	25.8	11.2	11.5	11.7	4.6	18.0
Black	2.7	3.4	5.5	1.6	2.3	2.8	3.7	1.3	1.7
Hispanic	2.7	3.4	3.4	2.0	2.0	2.2	3.4	2.3	6.7
White	77.2	79.1	82.3	69.4	82.5	82.1	79.3	90.4	72.7
Other race[a]	1.2	1.3	1.0	1.1	1.8	1.4	1.6	1.1	S
Age									
Under 35	10.1	11.2	5.9	11.8	9.3	7.7	4.1	2.2	10.0
35–39	13.4	13.8	7.7	15.8	12.5	12.1	8.7	5.1	13.4
40–44	15.0	14.1	12.7	18.4	13.4	12.3	11.1	10.2	15.0
45–49	15.6	15.3	16.6	15.8	16.7	16.2	19.5	13.0	15.5
50–54	15.2	14.5	20.2	13.7	16.7	17.4	24.0	18.4	10.8
55–59	14.3	13.6	18.3	12.1	15.3	17.2	18.3	21.4	23.7
60–64	10.5	11.3	10.2	8.2	11.8	11.9	9.6	15.0	9.1
65–75	5.9	6.2	8.5	4.1	4.4	5.3	4.7	14.7	2.5
Citizenship status									
U.S. citizen	90.0	89.9	96.2	85.8	93.3	96.9	95.3	98.1	74.2
Native born	75.2	77.3	85.3	65.5	82.9	82.8	79.9	88.7	61.4
Naturalized	14.8	12.5	10.9	20.3	10.5	14.1	15.4	9.3	12.8
Non-U.S. citizen	10.0	10.1	3.8	14.2	6.7	3.1	4.7	1.9	25.8
Permanent resident	6.7	6.4	2.9	10.1	4.1	2.0	3.4	1.7	7.1
Temporary resident	3.3	3.7	0.9	4.1	2.6	1.2	1.3	0.2	18.7
Years since doctorate									
5 or less	19.5	22.2	15.8	19.0	21.1	17.5	17.1	6.9	18.1
6–10	18.1	16.9	19.7	21.4	17.0	16.7	15.2	12.8	20.1
11–15	14.7	14.0	15.2	16.0	14.8	14.1	14.1	13.9	15.2
16–20	12.9	12.4	14.7	12.2	14.3	13.7	19.4	14.7	9.9
21–25	11.5	10.5	13.4	11.6	11.1	12.6	13.8	15.2	12.4
More than 25	23.3	24.1	21.2	19.9	21.7	25.4	20.4	36.5	24.4
Primary or secondary work activity[b]									
Any R&D	62.7	69.8	18.1	65.2	52.6	72.7	43.4	28.6	58.6
Applied research	32.8	31.1	7.1	35.9	35.4	55.2	29.5	15.6	42.0
Basic research	23.8	43.0	5.6	5.2	17.2	26.1	8.2	3.5	10.2
Design	6.4	1.7	1.9	13.8	5.0	6.0	5.6	6.1	7.0
Development	14.6	3.3	4.0	33.6	9.0	13.5	8.1	10.6	16.1
Computer applications	9.5	4.6	4.8	16.8	8.3	10.8	13.4	7.3	8.7
Management, sales, administration	40.7	30.0	32.3	50.9	55.5	46.6	55.9	41.4	52.3
Professional services	16.1	8.0	21.8	14.6	31.1	10.3	35.9	64.7	15.9
Teaching	31.0	61.1	71.0	1.8	8.4	2.8	5.0	7.9	3.5
Other activities	6.0	4.3	7.0	6.5	6.7	9.2	10.3	8.4	13.8

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

[b] Detail exceeds total due to multiple responses.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 46. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics, race/ethnicity, and sex: 2003 (corrected January 2011)
(Percent)

Characteristic	Total			American Indian/ Alaska Native			Asian			Black			Hispanic			White			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number employed	593,300	432,150	161,150	970	680	290	95,000	73,060	21,940	15,860	9,500	6,360	16,220	10,350	5,880	457,870	333,450	124,420	7,380	5,110	2,260
All characteristics	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Age																					
Under 35	10.1	8.8	13.6	17.4	19.3	S	15.5	13.8	21.3	12.5	10.1	16.0	12.3	10.5	15.5	8.8	7.6	12.0	9.8	8.1	13.7
35–39	13.4	12.4	16.1	S	S	S	21.0	19.7	25.5	13.6	10.7	17.8	17.5	15.7	20.6	11.7	10.7	14.1	14.2	12.6	17.6
40–44	15.0	14.6	16.0	7.6	S	S	21.6	21.5	21.9	13.2	14.4	11.3	20.7	21.4	19.5	13.4	12.8	14.9	18.6	17.2	21.6
45–49	15.6	15.2	16.8	20.7	20.3	21.6	15.7	16.4	13.7	17.6	18.0	16.9	16.9	16.6	17.5	15.5	14.8	17.4	12.9	12.8	13.1
50–54	15.2	15.1	15.7	14.1	15.9	S	10.2	10.9	8.2	16.4	17.4	14.9	12.7	11.6	14.6	16.3	16.0	17.1	14.8	15.2	14.0
55–59	14.3	14.9	12.7	23.3	20.2	30.6	7.2	7.6	5.8	14.4	13.7	15.6	9.0	9.7	7.8	15.9	16.6	14.0	13.3	14.8	9.9
60–64	10.5	12.1	6.2	8.7	11.1	S	5.5	6.5	2.2	7.3	9.3	4.3	7.2	9.6	2.9	11.8	13.5	7.1	10.9	12.6	7.1
65–75	5.9	7.0	3.1	S	S	S	3.2	3.7	1.4	5.1	6.4	3.3	3.6	4.8	1.5	6.6	7.8	3.4	5.6	6.7	2.9
Years since doctorate																					
5 or less	19.5	16.4	27.7	26.1	19.5	41.8	27.9	25.5	36.2	30.1	25.4	37.0	29.0	24.8	36.3	17.0	13.9	25.2	20.2	16.3	28.9
6–10	18.1	16.5	22.4	21.6	21.4	22.3	28.0	26.9	31.7	19.8	19.6	20.1	23.5	21.6	26.7	15.8	14.0	20.6	20.3	17.5	26.5
11–15	14.7	14.0	16.6	10.8	14.0	S	16.7	17.2	14.8	15.8	15.9	15.8	17.3	17.7	16.6	14.1	13.1	16.9	18.8	18.6	19.1
16–20	12.9	12.7	13.6	25.8	27.1	22.6	9.3	10.0	7.0	11.8	12.7	10.6	11.7	11.4	12.2	13.8	13.3	15.0	8.4	7.9	9.5
21–25	11.5	12.1	9.8	S	S	S	6.6	7.3	4.4	9.2	9.3	9.2	5.9	6.6	4.5	12.8	13.5	11.0	12.8	13.9	10.1
More than 25	23.3	28.2	10.0	15.7	18.0	S	11.5	13.1	5.9	13.2	17.2	7.3	12.6	17.7	3.6	26.5	32.2	11.3	19.6	25.7	5.8
Citizenship status																					
U.S. citizen	90.0	89.4	91.6	96.0	96.4	95.1	63.0	62.6	64.4	87.2	82.8	93.6	82.4	79.0	88.4	95.9	95.7	96.4	95.2	95.0	95.6
Native born	75.2	73.6	79.5	96.0	96.4	95.1	7.3	6.1	11.3	66.1	53.0	85.5	58.1	54.7	64.0	90.1	89.5	91.8	75.3	71.1	84.8
Naturalized	14.8	15.8	12.1	S	S	S	55.7	56.5	53.1	21.1	29.8	8.1	24.3	24.3	24.4	5.7	6.2	4.6	19.9	23.9	10.8
Non-U.S. citizen	10.0	10.6	8.4	S	S	S	37.0	37.4	35.6	12.8	17.2	6.4	17.6	21.0	11.6	4.1	4.3	3.6	4.8	5.0	4.4
Permanent resident	6.7	7.1	5.6	S	S	S	24.5	24.8	23.3	7.7	10.1	4.1	11.4	13.9	6.9	2.9	3.0	2.5	2.6	2.6	2.6
Temporary resident	3.3	3.5	2.8	S	S	S	12.5	12.6	12.3	5.1	7.1	2.3	6.2	7.1	4.7	1.3	1.3	1.1	2.2	2.4	S
Employer location																					
New England	8.4	8.1	9.1	S	S	S	8.0	7.6	9.2	4.9	4.6	5.3	6.5	6.7	6.1	8.7	8.4	9.5	5.2	4.6	6.5
Middle Atlantic	15.8	15.4	16.9	S	S	S	17.1	16.8	18.0	14.6	13.8	15.7	13.2	12.7	14.0	15.7	15.3	17.0	11.7	11.6	12.1
East North Central	13.2	13.1	13.5	14.2	11.0	21.9	13.2	13.5	12.2	12.6	12.4	13.0	10.2	10.7	9.3	13.4	13.1	14.0	11.2	12.4	8.6
West North Central	5.7	5.8	5.5	S	S	S	4.6	4.5	4.7	4.5	5.9	2.5	4.6	5.3	3.3	6.0	6.1	6.0	5.0	6.0	2.7
South Atlantic	19.1	18.9	19.7	13.5	15.8	S	14.9	14.5	16.3	34.7	34.4	35.2	19.1	18.2	20.9	19.5	19.5	19.4	18.5	17.0	21.8
East South Central	3.8	4.0	3.3	S	S	S	2.7	2.9	2.0	6.3	6.5	6.0	2.1	2.6	1.2	4.0	4.1	3.5	5.3	5.7	4.3
West South Central	7.8	8.1	6.7	21.2	18.3	27.9	8.6	9.0	7.5	8.7	8.5	9.0	11.0	12.3	8.8	7.3	7.7	6.3	11.0	11.5	10.1
Mountain	6.6	6.9	5.8	20.8	26.1	S	3.8	3.9	3.4	2.0	2.3	1.4	6.8	7.0	6.6	7.3	7.7	6.3	6.7	6.4	7.2
Pacific	19.2	19.3	19.0	17.2	17.2	17.4	26.9	26.9	26.5	11.3	10.9	11.9	17.4	16.2	19.4	17.9	17.9	17.9	25.3	24.7	26.5
U.S. territories and other areas	0.4	0.4	0.5	S	S	S	0.3	0.3	S	0.4	0.5	S	9.1	8.3	10.4	0.2	0.2	0.1	S	S	S
Sector of employment																					
Universities and 4-year colleges	43.7	42.1	48.0	47.2	52.8	34.2	34.6	32.5	41.6	55.4	54.3	57.1	53.7	54.6	52.2	44.8	43.5	48.4	45.6	44.4	48.3
Other educational institutions	3.4	2.7	5.2	6.4	7.8	S	1.6	1.3	2.6	7.0	5.3	9.5	4.2	2.1	7.9	3.6	3.0	5.3	2.6	1.7	4.7
Private-for-profit	31.6	35.5	21.3	23.7	16.6	40.2	51.0	54.2	40.3	18.9	22.7	13.2	23.0	26.7	16.3	28.4	32.1	18.7	28.0	34.3	13.8
Private not-for-profit	5.0	4.4	6.7	S	S	S	3.5	3.1	4.8	4.3	3.8	5.1	3.7	2.7	5.5	5.3	4.7	7.1	7.2	5.1	11.9
Federal government	6.9	7.3	6.0	S	S	S	5.0	5.0	4.9	7.2	6.7	7.9	5.5	5.8	5.0	7.4	7.8	6.2	7.6	7.7	7.3

TABLE 46. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics, race/ethnicity, and sex: 2003 (corrected January 2011)
(Percent)

Characteristic	Total			American Indian/ Alaska Native			Asian			Black			Hispanic			White			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
State and local government	2.7	2.6	3.0	S	S	S	2.0	1.7	2.8	3.8	3.4	4.3	3.4	2.4	5.1	2.8	2.7	2.9	3.4	2.4	5.5
Self-employed	6.1	4.9	9.2	8.9	9.9	S	1.8	1.5	2.5	3.1	3.4	2.6	5.2	3.9	7.5	7.1	5.8	10.8	5.4	4.3	7.7
Other sector	0.6	0.6	0.6	S	S	S	0.6	0.6	0.6	0.4	S	S	1.4	1.8	S	0.5	0.5	0.6	S	S	S
Primary or secondary work activity[b]																					
Any R&D	62.7	65.7	54.7	52.1	57.8	38.5	74.5	75.4	71.6	55.2	59.7	48.6	63.0	68.1	54.0	60.5	63.7	52.1	61.2	63.5	56.0
Applied research	32.8	33.8	29.9	27.9	31.0	20.6	37.9	38.0	37.4	30.0	31.6	27.5	33.7	36.3	29.2	31.7	32.9	28.6	35.3	35.5	34.8
Basic research	23.8	24.2	22.7	20.7	24.0	S	25.9	24.3	31.0	22.6	25.4	18.3	28.8	31.1	24.8	23.2	23.9	21.4	25.7	26.4	24.1
Design	6.4	7.5	3.4	S	S	S	10.0	11.1	6.4	2.8	3.3	1.9	5.2	6.4	3.0	5.9	6.9	3.0	5.3	7.1	S
Development	14.6	16.6	9.1	17.2	21.1	S	26.1	28.1	19.7	9.4	10.8	7.3	10.1	10.4	9.6	12.6	14.5	7.3	8.7	10.2	5.4
Computer applications	9.5	11.2	5.0	8.3	10.4	S	16.8	18.3	12.0	5.4	6.6	3.6	6.3	8.2	2.8	8.2	9.8	4.0	10.5	13.9	2.9
Management, sales, administration	40.7	40.0	42.3	41.7	39.7	46.6	32.4	32.0	33.8	40.2	38.9	42.3	38.6	37.6	40.4	42.5	42.0	43.9	36.8	35.5	39.7
Professional services	16.1	13.0	24.6	19.2	19.1	19.3	7.3	5.8	12.4	19.4	14.7	26.5	17.1	13.2	23.9	17.7	14.4	26.7	19.4	17.1	24.6
Teaching	31.0	29.8	34.1	40.6	38.9	44.6	19.5	19.2	20.3	43.0	42.5	43.8	37.6	37.4	38.1	32.6	31.4	35.8	33.8	32.2	37.4
Other activities	6.0	6.0	6.1	S	S	S	5.7	6.0	4.8	6.6	6.2	7.1	6.3	6.3	6.4	6.0	6.0	6.2	8.5	7.5	10.9
Federal support																					
Receiving support	30.6	31.0	29.6	27.4	28.7	24.4	26.6	26.4	27.2	27.8	26.7	29.4	35.0	35.8	33.5	31.4	31.9	29.8	33.3	32.3	35.4
Not receiving support	69.4	69.0	70.4	72.6	71.3	75.6	73.4	73.6	72.8	72.2	73.3	70.6	65.0	64.2	66.5	68.6	68.1	70.2	66.7	67.7	64.6
Degree – job relationship																					
Closely related	66.2	65.1	69.4	74.0	72.8	76.9	60.3	60.3	60.5	70.7	70.6	70.9	73.9	73.5	74.7	67.0	65.7	70.5	68.9	67.2	72.7
Somewhat related	25.0	25.8	23.0	17.7	17.4	18.4	29.7	29.8	29.6	21.0	19.7	22.9	18.7	18.5	19.1	24.4	25.3	22.1	23.3	24.3	21.0
Not related	8.7	9.2	7.6	8.2	9.7	S	10.0	10.0	9.9	8.3	9.7	6.2	7.4	8.0	6.2	8.6	9.0	7.4	7.8	8.5	6.3

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

[b] Detail exceeds total due to multiple responses.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 47. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics and primary or secondary work activity: 2003 (corrected January 2011)
(Percent)

Characteristic	All employed	Research and development					Computer applications	Management, sales, administration	Professional services	Teaching	Other
		Any R&D	Applied research	Basic research	Design	Development					
Number employed	593,300	371,830	194,380	141,240	38,060	86,330	56,280	241,190	95,630	183,650	35,700
All characteristics	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex											
Male	72.8	76.3	75.2	74.1	85.6	83.1	85.7	71.8	58.5	70.0	72.5
Female	27.2	23.7	24.8	25.9	14.4	16.9	14.3	28.2	41.5	30.0	27.5
Race/ethnicity											
American Indian/Alaska Native	0.2	0.1	0.1	0.1	S	0.2	0.1	0.2	0.2	0.2	S
Asian	16.0	19.0	18.5	17.4	24.9	28.8	28.4	12.8	7.3	10.1	15.2
Black	2.7	2.4	2.4	2.5	1.1	1.7	1.5	2.6	3.2	3.7	2.9
Hispanic	2.7	2.7	2.8	3.3	2.2	1.9	1.8	2.6	2.9	3.3	2.9
White	77.2	74.5	74.7	75.3	70.7	66.7	66.8	80.7	84.9	81.3	77.1
Other race[a]	1.2	1.2	1.3	1.3	1.0	0.7	1.4	1.1	1.5	1.4	1.8
Age											
Under 35	10.1	12.7	12.5	15.2	12.4	12.7	12.9	7.5	6.6	8.3	8.1
35–39	13.4	15.7	15.7	17.3	15.7	15.9	16.6	11.6	9.7	11.9	11.8
40–44	15.0	16.3	16.1	16.0	17.4	17.2	17.7	15.2	11.5	13.5	13.9
45–49	15.6	15.9	15.8	15.6	14.5	15.4	14.3	16.5	15.8	15.8	14.6
50–54	15.2	13.8	14.2	12.6	12.4	13.4	12.7	16.9	18.6	15.7	15.3
55–59	14.3	11.9	12.4	10.2	14.0	11.1	12.2	16.1	19.4	14.7	15.9
60–64	10.5	8.6	8.4	7.7	8.8	8.7	9.2	11.2	11.1	12.7	12.8
65–75	5.9	5.1	4.8	5.4	4.8	5.5	4.4	5.0	7.3	7.3	7.6
Years since doctorate											
5 or less	19.5	23.2	24.9	25.6	22.7	21.7	23.5	14.2	15.3	18.1	17.2
6–10	18.1	19.2	18.8	18.7	21.3	21.3	22.1	17.6	16.1	16.6	18.5
11–15	14.7	14.7	14.7	14.2	13.7	14.1	14.5	15.8	15.4	14.8	14.0
16–20	12.9	12.2	12.1	12.1	10.9	11.7	10.7	14.7	14.8	13.1	11.8
21–25	11.5	10.1	10.2	9.5	9.0	9.7	9.7	13.3	14.1	11.1	13.6
More than 25	23.3	20.6	19.3	19.9	22.4	21.5	19.6	24.3	24.4	26.4	24.9
Citizenship status											
U.S. citizen	90.0	87.3	87.1	86.6	84.8	83.8	82.6	93.5	96.6	92.3	91.4
Native born	75.2	71.1	71.2	71.9	65.2	62.6	61.6	80.0	86.6	79.9	76.2
Naturalized	14.8	16.2	15.9	14.7	19.6	21.2	21.0	13.5	10.0	12.3	15.2
Non-U.S. citizen	10.0	12.7	12.9	13.4	15.2	16.2	17.4	6.5	3.4	7.7	8.6
Permanent resident	6.7	8.2	8.0	8.2	10.2	10.5	11.7	4.8	2.7	5.6	5.7
Temporary resident	3.3	4.5	4.9	5.2	5.0	5.7	5.6	1.6	0.7	2.2	2.8

TABLE 47. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics and primary or secondary work activity: 2003 (corrected January 2011)
(Percent)

Characteristic	All employed	Research and development					Computer applications	Management, sales, administration	Professional services	Teaching	Other
		Any R&D	Applied research	Basic research	Design	Development					
Sector of employment											
Universities and 4-year colleges	43.7	48.7	41.5	79.0	11.7	9.8	21.2	32.3	21.7	86.3	31.5
Other educational institutions	3.4	1.0	0.7	0.8	1.0	0.9	1.7	2.7	4.6	7.8	4.0
Private-for-profit	31.6	32.9	34.7	6.9	68.1	73.1	55.9	39.6	28.6	1.9	34.0
Private not-for-profit	5.0	4.2	5.4	3.6	3.9	3.1	4.3	6.8	9.6	1.4	5.6
Federal government	6.9	8.0	11.7	7.6	6.5	6.4	7.9	7.9	4.4	0.6	10.6
State and local government	2.7	1.9	2.4	0.9	2.3	1.5	3.8	3.7	6.0	0.4	4.6
Self-employed	6.1	2.8	2.9	0.9	5.8	4.5	4.7	6.2	24.5	1.6	8.5
Other sector	0.6	0.5	0.7	0.2	0.6	0.6	0.5	0.7	0.6	0.1	1.3
Employer location											
New England	8.4	8.8	8.3	9.7	7.9	8.6	8.4	8.1	7.9	8.5	7.2
Middle Atlantic	15.8	15.6	15.1	16.1	14.5	16.0	15.4	15.7	17.5	16.1	14.5
East North Central	13.2	13.3	12.5	14.2	11.4	14.3	12.0	12.6	12.1	15.8	10.9
West North Central	5.7	5.5	5.6	6.2	4.2	4.6	3.3	5.3	6.1	7.5	6.1
South Atlantic	19.1	18.8	20.9	19.4	16.9	15.4	17.0	19.9	19.2	17.5	22.5
East South Central	3.8	3.7	4.0	4.2	2.9	2.3	3.1	3.6	3.3	5.1	3.5
West South Central	7.8	7.6	7.6	6.9	8.0	7.9	7.7	7.8	7.5	8.6	8.2
Mountain	6.6	6.6	7.4	6.2	6.2	5.4	6.7	6.7	6.4	6.8	7.2
Pacific	19.2	19.6	18.3	16.8	27.8	25.2	26.2	19.8	19.4	13.6	19.5
U.S. territories and other areas	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.5	0.5	0.6	0.5

S = suppressed due to too few cases (fewer than 50 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Percentages may not sum to 100 due to rounding. Numbers are rounded to nearest 10. Numbers for work activities sum to more than the total because of multiple responses.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 48. Employed doctoral scientists and engineers, by field of doctorate and broad occupation: 2003

(Percent)

Field	Number employed	Science occupations [a]			Engineering occupations			Science and engineering-related occupations				Non-science and engineering occupations			
		Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Health-related occupation	S&E manager	Other	Total	Non-S&E manager	Teacher, except S&E postsecondary	Other
All fields	593,300	59.5	21.2	38.3	13.0	2.9	10.0	10.9	5.8	3.9	1.2	16.6	7.5	2.4	6.8
Science	468,570	70.6	26.1	44.5	2.6	0.4	2.2	9.5	4.7	3.6	1.3	17.2	7.3	2.6	7.3
Biological, agricultural, and environmental life sciences	145,760	67.3	20.6	46.7	1.2	0.2	1.0	17.5	11.4	4.8	1.4	13.9	6.6	0.6	6.8
Agricultural/food sciences	16,890	70.6	21.1	49.5	1.4	0.2	1.2	8.2	2.6	3.8	1.8	19.8	10.0	0.8	8.9
Biochemistry/biophysics	22,850	67.4	17.2	50.2	1.2	0.3	0.9	16.8	9.5	6.0	1.2	14.6	6.7	0.3	7.6
Cell/molecular biology	15,180	71.0	16.9	54.1	0.7	S	0.7	15.8	10.5	3.6	1.7	12.5	5.2	0.5	6.7
Environmental life sciences	5,620	66.1	22.6	43.5	8.0	1.2	6.8	11.0	0.8	8.4	1.8	14.9	7.6	0.5	6.8
Microbiology	10,970	61.5	17.7	43.8	0.8	S	0.8	19.0	12.7	6.2	0.1	18.7	9.1	0.7	8.9
Zoology	12,070	68.8	30.6	38.1	1.0	0.3	0.7	15.1	8.7	4.7	1.7	15.2	7.4	0.5	7.3
Other biological sciences	62,190	66.3	21.0	45.3	0.8	0.1	0.6	21.6	15.9	4.3	1.4	11.3	5.3	0.6	5.4
Computer and information sciences	11,960	78.6	31.8	46.8	2.9	1.0	2.0	7.2	0.5	5.2	1.5	11.3	6.7	1.8	2.9
Mathematics and statistics	28,330	79.5	48.5	31.0	3.9	1.2	2.7	3.9	0.6	1.3	2.1	12.7	5.8	2.2	4.7
Physical sciences	112,670	69.5	21.3	48.2	7.4	0.7	6.7	9.1	1.5	5.2	2.4	14.0	7.2	0.5	6.3
Astronomy/astrophysics	3,820	85.6	27.3	58.3	5.2	S	5.2	4.1	S	3.9	0.2	5.1	1.3	0.7	3.1
Chemistry, except biochemistry	57,040	67.6	18.9	48.7	4.9	0.3	4.6	10.1	2.3	5.6	2.2	17.5	8.9	0.5	8.1
Earth/atmospheric/ocean sciences	17,050	76.7	29.2	47.5	3.8	0.7	3.1	7.7	0.6	4.9	2.2	11.8	5.8	0.9	5.2
Physics	34,760	67.4	20.8	46.6	13.6	1.7	12.0	8.6	0.6	4.8	3.1	10.4	5.7	0.5	4.2
Psychology	91,410	78.7	19.7	59.0	0.3	0.1	0.2	4.7	2.0	2.6	0.1	16.3	5.9	3.2	7.1
Social sciences	78,450	64.7	41.9	22.8	0.4	S	0.4	3.3	2.0	0.7	0.6	31.6	11.1	9.0	11.5
Economics	22,060	71.9	36.9	35.0	0.2	0.1	0.1	1.5	0.6	0.6	0.3	26.4	10.7	7.0	8.7
Political sciences	17,730	65.7	50.2	15.5	0.2	S	0.2	2.1	1.3	0.5	0.3	32.1	15.1	4.6	12.4
Sociology	14,250	68.0	48.0	20.0	0.2	S	0.2	4.2	3.3	0.7	0.2	27.6	11.1	7.1	9.4
Other social sciences	24,410	55.5	36.7	18.8	1.0	S	1.0	5.2	2.9	0.9	1.3	38.3	8.7	15.1	14.5
Engineering	101,500	15.4	2.6	12.8	63.8	15.5	48.3	7.5	1.2	5.3	1.0	13.3	7.4	1.1	4.8
Aerospace/aeronautical/astronautical engineering	4,150	10.8	1.0	9.8	70.5	19.1	51.4	6.4	0.5	5.3	0.7	12.2	7.5	0.5	4.3
Chemical engineering	13,460	11.1	1.7	9.4	64.0	10.7	53.3	7.6	1.9	4.6	1.1	17.3	7.9	0.6	8.7
Civil engineering	9,170	7.8	1.3	6.4	76.5	28.9	47.7	5.2	S	5.2	S	10.5	6.3	1.5	2.7

TABLE 48. Employed doctoral scientists and engineers, by field of doctorate and broad occupation: 2003

(Percent)

Field	Number employed	Science occupations [a]			Engineering occupations			Science and engineering-related occupations				Non-science and engineering occupations			
		Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Health-related occupation	S&E manager	Other	Total	Non-S&E manager	Teacher, except S&E postsecondary	Other
Electrical/computer engineering	28,480	20.2	3.6	16.6	59.9	15.4	44.6	6.8	0.7	4.8	1.3	13.0	8.6	0.7	3.8
Materials/metallurgical engineering	10,820	14.7	2.1	12.6	63.3	7.6	55.7	8.8	0.6	6.6	1.6	13.1	7.2	0.2	5.7
Mechanical engineering	13,920	10.0	0.7	9.3	71.6	16.1	55.4	7.3	0.6	5.7	1.1	11.1	6.4	0.2	4.6
Other engineering	21,480	19.6	3.9	15.7	57.1	15.6	41.4	9.2	2.8	5.5	0.9	14.1	6.8	2.9	4.4
Health	23,230	27.1	2.9	24.2	0.5	0.1	0.4	53.4	48.8	4.3	0.3	19.0	10.4	3.8	4.8

S = suppressed due to too few cases (fewer than 50 weighted cases).

S&E = science and engineering.

[a] Further detail for science occupations can be found in Table 49.

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 49. Employed doctoral scientists and engineers working in science occupations, by field of doctorate and broad occupation: 2003
(Percent)

Field	Number employed	Biological, agricultural, and other life scientist			Computer and information scientist			Mathematical scientist			Physical scientist			Psychologist			Social scientist		
		Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other
All fields	352,956	17.6	4.8	12.8	5.8	1.3	4.5	3.8	2.3	1.5	12.4	4.3	8.2	11.3	3.0	8.4	8.5	5.6	3.0
Science	331,029	21.0	6.0	15.0	5.4	1.4	4.0	4.5	2.8	1.7	14.9	5.3	9.6	14.3	3.7	10.6	10.6	7.0	3.6
Biological, agricultural, and environmental life sciences	98,123	60.9	18.2	42.7	1.4	0.1	1.2	1.1	0.3	0.8	3.1	1.4	1.7	0.3	0.2	0.1	0.6	0.3	0.3
Agricultural/food sciences	11,931	63.4	18.9	44.5	1.3	0.2	1.2	0.6	0.1	0.5	4.4	1.4	2.9	S	S	S	0.9	0.5	0.4
Biochemistry/biophysics	15,397	58.2	13.2	45.0	1.5	0.1	1.4	0.3	S	0.3	7.0	3.7	3.3	0.2	0.1	0.1	0.1	0.1	S
Cell/molecular biology	10,773	68.1	16.1	52.0	1.1	S	1.1	0.4	0.2	0.2	1.1	0.6	0.5	S	S	S	0.2	S	0.2
Environmental life sciences	3,715	47.0	14.3	32.7	0.9	0.3	0.6	1.3	0.9	0.4	10.8	3.0	7.8	0.2	0.2	S	6.0	3.9	2.1
Microbiology	6,748	59.8	16.9	42.9	0.9	0.2	0.7	S	S	S	0.5	0.3	0.2	S	S	S	0.3	0.3	S
Zoology	8,296	63.6	27.9	35.7	1.5	0.4	1.1	0.4	S	0.4	2.6	2.0	0.6	0.2	S	0.2	0.5	0.3	0.2
Other biological sciences	41,263	60.3	19.1	41.2	1.5	0.1	1.4	2.0	0.6	1.4	1.6	0.8	0.9	0.6	0.5	0.1	0.3	S	0.3
Computer and information sciences	9,402	0.2	S	0.2	76.9	31.0	45.9	1.1	0.6	0.5	S	S	S	0.2	0.2	S	0.3	0.1	0.2
Mathematics and statistics	22,523	0.7	S	0.6	16.9	4.6	12.3	60.5	43.3	17.2	0.8	0.2	0.6	0.2	0.1	0.1	0.4	0.2	0.2
Physical sciences	78,311	5.9	0.8	5.0	5.6	0.5	5.1	0.7	0.3	0.4	57.0	19.6	37.4	S	S	S	0.2	0.1	0.2
Astronomy/astrophysics	3,267	1.4	1.3	0.1	8.5	0.7	7.8	S	S	S	75.6	25.4	50.2	S	S	S	0.2	S	0.2
Chemistry, except biochemistry	38,539	7.9	0.9	7.0	2.8	0.2	2.5	0.1	S	0.1	56.7	17.7	39.0	S	S	S	S	S	S
Earth/atmospheric/ocean sciences	13,076	4.9	0.9	3.9	3.2	0.7	2.4	0.3	0.1	0.2	67.8	27.0	40.8	S	S	S	0.5	0.3	0.1
Physics	23,430	3.6	0.6	2.9	11.1	0.7	10.3	2.1	0.9	1.2	50.1	18.3	31.8	0.1	0.1	S	0.5	0.1	0.4
Psychology	71,905	2.1	0.3	1.8	1.5	0.3	1.3	0.8	0.1	0.7	S	S	S	71.9	18.4	53.5	2.3	0.6	1.6
Social sciences	50,766	1.2	0.4	0.8	2.0	0.4	1.6	0.9	0.1	0.8	0.9	0.5	0.4	0.7	0.2	0.5	59.1	40.3	18.8
Economics	15,871	1.0	0.6	0.4	1.2	0.4	0.8	1.5	S	1.5	0.4	0.2	0.2	0.1	S	0.1	67.8	35.8	32.0
Political sciences	11,651	0.2	S	0.2	2.1	0.2	2.0	0.3	S	0.3	0.4	0.1	0.3	0.4	0.2	0.2	62.3	49.8	12.6
Sociology	9,694	1.0	S	1.0	1.1	0.3	0.8	1.9	0.4	1.5	S	S	S	0.8	0.3	0.5	63.3	47.1	16.2
Other social sciences	13,550	2.3	0.7	1.6	3.0	0.7	2.4	0.3	0.1	0.2	2.2	1.4	0.7	1.3	0.3	1.0	46.4	33.5	12.8
Engineering	15,628	1.5	0.3	1.2	8.9	1.3	7.7	1.1	0.3	0.8	3.6	0.6	3.0	S	S	S	0.2	0.1	0.1
Aerospace/aeronautical/ astronautical engineering	450	0.6	S	0.6	5.4	S	5.4	S	S	S	4.1	0.3	3.8	0.7	0.7	S	S	S	S
Chemical engineering	1,489	1.9	0.2	1.8	3.9	0.2	3.7	0.9	0.4	0.5	4.3	1.0	3.4	S	S	S	S	S	S
Civil engineering	713	0.2	S	0.2	3.7	0.5	3.2	0.7	0.3	0.3	3.2	0.5	2.7	S	S	S	S	S	S

TABLE 49. Employed doctoral scientists and engineers working in science occupations, by field of doctorate and broad occupation: 2003
(Percent)

Field	Number employed	Biological, agricultural, and other life scientist			Computer and information scientist			Mathematical scientist			Physical scientist			Psychologist			Social scientist		
		Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other	Total	Post-secondary teacher	Other
Electrical/computer engineering	5,768	0.3	0.1	0.2	17.1	3.0	14.1	0.8	0.2	0.6	1.8	0.1	1.6	S	S	S	0.2	0.2	S
Materials/metallurgical engineering	1,594	0.8	0.8	S	4.5	0.2	4.3	0.3	S	0.3	8.9	1.1	7.8	S	S	S	0.2	S	0.2
Mechanical engineering	1,397	0.3	S	0.3	7.6	0.4	7.1	0.4	0.1	0.2	1.6	0.2	1.4	S	S	S	0.2	S	0.2
Other engineering	4,217	4.6	0.7	3.9	7.3	1.3	6.0	2.9	0.7	2.2	4.4	1.0	3.4	S	S	S	0.4	0.2	0.2
Health	6,299	20.1	1.2	19.0	0.6	0.1	0.5	0.7	0.2	0.5	1.6	0.1	1.5	1.0	0.6	0.4	3.1	0.6	2.4

S = suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest 10. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 50. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 2003 (corrected January 2011)

(Thousands of dollars)

Field	Total			American Indian/ Alaska Native			Asian			Black			Hispanic			White			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All fields	82.0	86.5	70.0	66.6	65.0	68.0	84.5	87.0	74.0	70.0	72.0	69.0	72.0	78.0	62.0	82.5	87.3	70.0	75.0	83.0	65.0
Science	80.0	83.7	68.0	65.0	65.0	68.0	79.0	82.0	70.0	67.5	68.0	67.0	70.0	74.5	61.8	80.0	85.0	68.0	72.0	76.0	60.0
Biological, agricultural, and environmental life sciences	76.0	80.0	68.0	S	S	S	70.0	73.0	65.0	60.0	65.0	57.5	67.3	71.0	61.0	80.0	82.6	70.0	72.0	72.0	73.4
Agricultural/food sciences	75.0	76.0	61.0	S	S	S	70.0	73.0	59.9	45.0	45.0	S	70.0	77.3	S	75.9	79.0	65.0	72.0	72.0	S
Biochemistry/biophysics	85.0	93.0	72.0	S	S	S	75.0	80.0	68.1	48.0	45.0	S	77.0	84.0	S	90.0	100.0	76.6	48.0	S	S
Cell/molecular biology	70.0	75.0	63.0	S	S	S	65.0	70.0	60.0	55.0	S	S	70.0	S	S	72.8	75.6	63.0	S	S	S
Environmental life sciences	72.0	74.0	60.0	S	S	S	67.0	69.0	S	S	S	S	S	S	S	73.0	76.0	60.0	S	S	S
Microbiology	80.0	85.0	73.0	S	S	S	80.0	82.0	75.0	75.0	S	S	75.0	78.0	S	82.0	85.0	76.0	S	S	S
Zoology	77.0	79.0	70.0	S	S	S	78.0	78.0	82.0	73.0	S	S	74.0	S	S	77.0	79.0	70.0	S	S	S
Other biological sciences	75.0	80.0	69.0	S	S	S	70.0	71.6	67.0	70.0	75.0	57.5	61.0	60.0	61.0	79.4	82.6	70.0	75.0	75.0	S
Computer and information sciences	98.0	100.0	85.0	S	S	S	100.0	100.0	94.0	S	S	S	80.0	75.0	S	94.0	100.0	83.0	S	S	S
Mathematics and statistics	80.0	82.2	67.0	S	S	S	77.3	76.0	85.0	73.5	74.0	S	72.0	76.0	S	82.0	85.0	64.5	100.0	S	S
Physical sciences	87.0	90.0	75.0	S	S	S	85.0	85.0	80.0	80.0	80.1	62.0	78.8	82.5	65.0	89.0	90.8	74.0	86.0	98.0	60.0
Astronomy/astrophysics	84.0	89.0	62.0	S	S	S	86.5	87.0	S	S	S	S	S	S	S	85.5	89.4	62.5	S	S	S
Chemistry, except biochemistry	87.0	90.0	77.0	S	S	S	85.0	85.0	80.0	73.0	80.0	53.4	82.5	83.0	63.0	90.0	92.0	76.0	86.0	92.0	60.0
Earth/atmospheric/ocean sciences	75.0	80.0	62.0	S	S	S	70.0	72.3	63.0	S	S	S	70.0	70.0	S	75.0	80.0	62.0	104.5	110.0	S
Physics	94.0	95.0	85.0	S	S	S	89.0	90.0	87.5	100.0	100.0	S	83.9	85.0	S	95.0	96.0	81.0	72.0	92.8	S
Psychology	72.5	80.0	65.0	S	S	S	63.0	65.0	62.0	66.0	63.0	68.0	62.0	62.0	62.7	75.0	80.0	65.0	68.8	75.0	65.5
Social sciences	73.0	78.0	65.2	60.0	S	S	72.0	76.0	68.0	67.0	65.0	72.0	68.0	75.0	58.0	75.0	80.0	65.0	60.8	64.1	59.0
Economics	93.0	96.0	83.5	S	S	S	83.0	84.0	75.0	66.0	65.0	S	95.0	97.0	S	100.0	100.0	86.0	S	S	S
Political sciences	70.0	73.0	65.0	S	S	S	55.0	60.0	52.0	74.0	70.0	75.0	61.0	70.0	S	72.4	75.0	65.0	S	S	S
Sociology	66.0	69.0	63.7	S	S	S	67.0	70.0	65.5	62.3	60.0	63.9	61.1	70.0	56.0	66.0	68.0	64.0	S	S	S
Other social sciences	65.0	68.0	60.0	60.0	S	S	60.8	65.0	60.0	67.0	61.5	72.0	58.0	58.0	59.0	65.0	70.0	60.0	59.0	S	S
Engineering	97.3	100.0	84.0	S	S	S	95.0	95.0	83.4	85.0	88.0	82.5	89.0	90.0	70.0	100.0	100.0	84.0	100.0	100.0	S
Aerospace/aeronautical/ astronautical engineering	95.0	96.6	72.0	S	S	S	86.0	91.0	S	S	S	S	S	S	S	100.0	100.0	S	S	S	S
Chemical engineering	100.0	100.0	85.0	S	S	S	99.0	100.0	83.4	90.0	S	S	85.5	91.0	S	100.0	102.0	87.0	S	S	S
Civil engineering	85.0	85.4	70.0	S	S	S	88.8	90.0	S	68.0	68.0	S	80.0	80.0	S	85.0	87.0	70.0	S	S	S
Electrical/computer engineering	104.0	105.0	93.7	S	S	S	100.0	100.0	96.0	100.0	102.1	S	100.0	100.0	S	105.0	107.0	93.0	106.0	106.0	S
Materials/metallurgical engineering	94.5	95.0	86.1	S	S	S	93.0	93.0	93.1	S	S	S	S	S	S	95.0	96.0	85.0	S	S	S
Mechanical engineering	93.5	95.0	71.0	S	S	S	90.0	90.0	70.0	S	S	S	86.0	87.0	S	96.0	98.0	71.0	S	S	S
Other engineering	90.0	92.0	81.0	S	S	S	85.0	87.0	75.0	78.0	81.3	S	81.0	85.0	S	95.0	99.0	84.0	84.5	84.5	S
Health	75.9	85.0	71.0	S	S	S	80.0	82.0	75.0	73.0	83.0	69.5	72.0	S	72.0	75.0	85.0	70.3	75.0	S	72.4

S = suppressed due to too few cases (fewer than 200 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 51. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate and citizenship status: 2003
(Dollars)

Field	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
All fields	82,000	84,000	81,500	90,000	73,000	80,000	62,000
Science	80,000	80,000	80,000	84,500	67,500	72,300	53,100
Biological, agricultural, and environmental life sciences	76,000	79,000	79,000	78,000	58,000	67,000	43,000
Agricultural/food sciences	75,000	75,000	76,000	75,000	59,000	65,000	50,400
Biochemistry/biophysics	85,000	89,000	90,000	80,000	65,000	75,000	42,000
Cell/molecular biology	70,000	72,200	72,200	72,000	57,000	64,500	42,600
Environmental life sciences	72,000	72,500	72,000	74,000	55,000	67,000	S
Microbiology	80,000	84,000	80,000	94,000	52,000	80,000	48,000
Zoology	77,000	78,000	77,000	82,000	54,000	54,000	S
Other biological sciences	75,000	78,000	78,000	76,000	56,000	65,000	44,300
Computer and information sciences	98,000	100,000	97,300	105,000	88,500	103,000	80,000
Mathematics and statistics	80,000	84,000	82,000	85,000	68,900	71,000	62,000
Physical sciences	87,000	90,000	90,000	90,000	71,000	76,000	56,000
Astronomy/astrophysics	84,000	84,000	82,000	100,000	86,500	93,000	S
Chemistry, except biochemistry	87,000	90,000	90,000	90,000	72,000	78,000	50,000
Earth/atmospheric/ocean sciences	75,000	75,000	75,000	79,000	60,600	63,000	55,400
Physics	94,000	97,000	96,000	100,000	72,000	82,900	64,000
Psychology	72,500	73,000	73,000	75,000	58,000	65,000	45,000
Social sciences	73,000	74,000	73,000	79,300	70,000	70,000	67,500
Economics	93,000	95,000	98,000	84,500	88,000	84,000	90,000
Political sciences	70,000	72,000	72,000	69,000	60,000	60,000	S
Sociology	66,000	67,000	66,000	74,000	60,000	66,500	S
Other social sciences	65,000	65,000	65,000	77,000	57,000	60,000	53,000
Engineering	97,300	100,000	100,000	100,000	83,000	87,000	73,500
Aerospace/aeronautical/astronautical engineering	95,000	98,000	98,000	98,000	75,000	96,600	45,400
Chemical engineering	100,000	103,000	100,000	106,500	83,400	90,000	75,000
Civil engineering	85,000	88,800	85,000	91,500	72,000	80,000	63,000
Electrical/computer engineering	104,000	109,000	107,000	110,000	95,000	100,000	82,000
Materials/metallurgical engineering	94,500	100,000	96,000	100,000	80,000	83,000	72,000
Mechanical engineering	93,500	98,000	96,000	100,000	80,000	83,000	72,000
Other engineering	90,000	95,000	98,500	90,000	75,000	80,000	70,000
Health	75,900	76,000	75,000	85,000	70,000	75,000	54,000

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 52. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate and age: 2003
(Dollars)

Field	Total	Under 35	35–39	40–44	45–49	50–54	55–59	60–64	65–75
All fields	82,000	60,200	72,000	80,000	84,000	88,400	93,500	95,400	95,000
Science	80,000	55,000	66,000	75,900	80,000	85,100	90,100	90,000	91,000
Biological, agricultural, and environmental life sciences	76,000	45,000	62,000	74,300	80,000	88,000	95,000	95,000	95,300
Agricultural/food sciences	75,000	56,000	61,800	75,000	80,000	75,000	85,000	80,000	85,000
Biochemistry/biophysics	85,000	43,000	75,000	80,000	80,000	102,000	104,000	100,000	150,000
Cell/molecular biology	70,000	43,000	57,000	75,000	85,400	90,000	110,000	105,000	S
Environmental life sciences	72,000	53,500	60,000	71,000	74,000	80,000	75,000	80,000	S
Microbiology	80,000	40,000	68,000	70,000	85,700	100,000	105,000	100,000	90,000
Zoology	77,000	44,700	60,000	65,000	74,000	76,100	90,000	86,000	94,000
Other biological sciences	75,000	44,300	60,000	72,000	82,000	90,000	94,000	98,500	80,000
Computer and information sciences	98,000	89,000	92,000	105,000	100,000	98,000	97,000	S	S
Mathematics and statistics	80,000	58,000	68,500	76,000	80,000	86,000	99,000	95,000	85,000
Physical sciences	87,000	65,000	76,000	85,000	90,900	100,000	105,000	103,000	96,000
Astronomy/astrophysics	84,000	48,500	70,000	90,000	86,000	100,000	91,000	106,000	S
Chemistry, except biochemistry	87,000	70,000	77,000	88,600	95,000	102,000	105,000	100,000	90,000
Earth/atmospheric/ocean sciences	75,000	53,000	58,500	67,000	74,000	86,000	100,000	86,000	100,000
Physics	94,000	70,000	80,000	92,000	93,000	103,000	110,000	110,000	100,000
Psychology	72,500	53,500	60,000	67,000	75,000	80,000	82,000	80,000	90,000
Social sciences	73,000	55,000	60,000	66,000	68,000	78,000	84,000	84,000	89,000
Economics	93,000	80,000	84,000	96,000	90,000	94,000	104,000	102,000	100,000
Political sciences	70,000	48,000	53,000	60,000	65,000	80,000	82,500	92,000	95,000
Sociology	66,000	47,500	55,000	60,000	65,000	75,000	71,000	70,000	75,000
Other social sciences	65,000	48,000	50,200	58,000	60,000	72,000	73,400	80,000	66,000
Engineering	97,300	80,000	87,000	96,000	100,000	102,000	106,000	120,000	108,000
Aerospace/aeronautical/astronautical engineering	95,000	75,000	86,000	86,000	101,300	106,000	110,000	150,000	95,000
Chemical engineering	100,000	83,000	87,100	100,000	106,000	110,000	112,500	120,000	100,000
Civil engineering	85,000	61,100	76,000	80,000	95,000	82,000	98,500	107,000	132,000
Electrical/computer engineering	104,000	85,000	100,000	108,000	111,600	110,000	113,200	120,000	108,000
Materials/metallurgical engineering	94,500	82,000	82,000	96,000	100,000	100,000	110,000	100,000	106,500
Mechanical engineering	93,500	80,000	85,000	90,000	95,000	100,000	117,100	124,000	126,000
Other engineering	90,000	75,000	81,000	88,500	90,000	100,000	100,000	115,000	95,000
Health	75,900	66,000	68,000	72,000	73,800	79,000	82,000	81,500	94,000

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 53. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate and years since doctorate: 2003

(Dollars)

Field	Total	5 or less	6–10	11–15	16–20	21–25	More than 25
All fields	82,000	60,000	75,000	83,000	90,000	99,000	101,000
Science	80,000	55,000	70,000	79,600	86,000	95,000	100,000
Biological, agricultural, and environmental life sciences	76,000	48,000	69,800	80,000	89,000	100,000	100,000
Agricultural/food sciences	75,000	57,100	62,000	79,000	83,500	85,000	90,000
Biochemistry/biophysics	85,000	42,900	75,000	80,000	95,000	104,000	113,000
Cell/molecular biology	70,000	43,000	70,000	80,000	101,300	120,000	110,000
Environmental life sciences	72,000	55,000	71,000	72,000	91,400	89,000	82,800
Microbiology	80,000	47,000	70,000	88,000	90,000	108,600	100,000
Zoology	77,000	50,000	65,000	75,000	83,000	75,000	92,400
Other biological sciences	75,000	46,000	69,000	80,000	89,000	103,000	100,000
Computer and information sciences	98,000	82,000	103,000	105,000	125,000	102,000	S
Mathematics and statistics	80,000	60,000	72,000	75,000	81,000	90,000	100,000
Physical sciences	87,000	64,200	79,000	86,000	95,000	106,000	106,000
Astronomy/astrophysics	84,000	50,000	70,000	90,000	88,400	100,000	91,000
Chemistry, except biochemistry	87,000	70,000	80,000	90,000	99,000	106,000	102,000
Earth/atmospheric/ocean sciences	75,000	54,600	67,000	66,000	83,100	101,000	105,000
Physics	94,000	67,400	83,000	91,000	99,000	110,000	110,000
Psychology	72,500	55,000	62,000	72,000	82,000	85,000	90,000
Social sciences	73,000	55,000	63,000	70,000	75,000	85,500	98,000
Economics	93,000	75,000	84,000	83,000	96,500	100,000	116,000
Political sciences	70,000	52,000	60,000	66,100	64,400	97,000	103,000
Sociology	66,000	50,200	60,000	64,000	70,000	80,000	80,000
Other social sciences	65,000	49,500	57,000	67,800	68,500	78,000	85,000
Engineering	97,300	80,000	93,000	100,000	105,000	110,000	115,000
Aerospace/aeronautical/astronautical engineering	95,000	75,000	92,300	100,000	103,000	S	108,000
Chemical engineering	100,000	80,000	90,500	104,000	105,000	111,700	118,000
Civil engineering	85,000	63,000	80,000	92,000	95,000	95,000	104,200
Electrical/computer engineering	104,000	87,000	105,000	109,000	120,000	120,000	120,000
Materials/metallurgical engineering	94,500	80,000	85,000	100,000	110,000	102,000	110,000
Mechanical engineering	93,500	76,000	90,000	97,000	100,000	123,000	123,300
Other engineering	90,000	70,200	85,000	90,000	100,000	110,000	110,000
Health	75,900	63,000	73,000	78,000	88,700	91,600	110,000

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 54. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate and sector of employment: 2003
(Dollars)

Field	Total	Universities and 4-year colleges	Other educational institutions	Private for-profit	Private not-for-profit	Federal government	State, local government	Self-employed	Other
All fields	82,000	70,000	58,000	100,000	80,000	91,000	68,000	90,000	112,000
Science	80,000	67,000	58,000	100,000	78,000	90,000	67,000	90,000	117,000
Biological, agricultural, and environmental life sciences	76,000	66,800	50,000	100,000	75,500	84,000	63,000	85,000	72,000
Agricultural/food sciences	75,000	69,000	51,000	86,000	74,000	80,000	52,000	74,500	S
Biochemistry/biophysics	85,000	71,500	48,000	103,000	85,000	97,600	90,000	95,000	S
Cell/molecular biology	70,000	53,000	50,000	90,000	72,000	80,000	S	S	S
Environmental life sciences	72,000	65,000	S	89,000	91,400	76,000	67,000	S	S
Microbiology	80,000	67,000	45,500	105,000	70,000	88,800	S	S	S
Zoology	77,000	70,000	50,000	98,500	74,000	90,000	62,400	60,000	S
Other biological sciences	75,000	67,000	50,000	103,200	76,700	87,000	63,000	80,000	S
Computer and information sciences	98,000	78,600	S	120,000	120,000	101,000	S	S	S
Mathematics and statistics	80,000	68,000	61,000	103,000	98,000	102,000	85,000	95,000	S
Physical sciences	87,000	68,000	52,500	100,000	94,000	100,000	65,000	75,000	100,000
Astronomy/astrophysics	84,000	69,000	S	100,000	109,900	100,000	S	S	S
Chemistry, except biochemistry	87,000	64,400	54,000	100,000	85,100	90,000	62,000	75,000	S
Earth/atmospheric/ocean sciences	75,000	63,700	52,000	95,000	66,800	93,000	60,000	60,000	S
Physics	94,000	75,000	49,000	103,000	100,000	106,000	98,000	80,000	104,000
Psychology	72,500	64,000	66,000	90,000	70,000	87,000	68,000	95,000	S
Social sciences	73,000	67,000	58,000	110,000	85,000	95,000	70,000	80,000	150,000
Economics	93,000	81,000	65,000	125,000	100,700	100,600	79,000	100,000	160,000
Political sciences	70,000	63,000	52,000	110,000	87,000	104,000	73,000	110,000	S
Sociology	66,000	64,000	61,100	83,000	86,100	98,900	64,000	53,000	S
Other social sciences	65,000	60,000	57,000	100,000	66,000	80,000	63,500	70,000	S
Engineering	97,300	82,200	50,300	100,000	100,000	98,000	74,500	100,000	115,000
Aerospace/aeronautical/astronautical engineering	95,000	90,000	S	98,000	72,000	92,000	S	S	S
Chemical engineering	100,000	90,500	S	100,000	113,000	103,000	S	120,000	S
Civil engineering	85,000	78,000	S	95,000	S	92,000	67,500	150,000	S
Electrical/computer engineering	104,000	85,000	S	110,000	106,500	106,000	S	120,000	S
Materials/metallurgical engineering	94,500	76,000	S	98,000	84,000	93,000	S	83,000	S
Mechanical engineering	93,500	84,000	S	97,000	115,000	95,000	S	S	S
Other engineering	90,000	82,000	S	100,000	83,000	100,000	74,500	40,000	S
Health	75,900	70,000	68,000	100,000	82,000	86,000	70,000	100,000	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 55. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2003
(Dollars)

Employment sector and field	Total	Male	Female
All sectors	82,000	86,500	70,000
Science	80,000	83,700	68,000
Biological, agricultural, and environmental life sciences	76,000	80,000	68,000
Computer and information sciences	98,000	100,000	85,000
Mathematics and statistics	80,000	82,200	67,000
Physical sciences	87,000	90,000	75,000
Psychology	72,500	80,000	65,000
Social sciences	73,000	78,000	65,200
Engineering	97,300	100,000	84,000
Health	75,900	85,000	71,000
Universities and 4-year colleges	70,000	73,000	60,000
Science	67,000	71,000	60,000
Biological, agricultural, and environmental life sciences	66,800	70,300	57,000
Computer and information sciences	78,600	80,000	76,000
Mathematics and statistics	68,000	71,200	59,000
Physical sciences	68,000	70,500	57,000
Psychology	64,000	70,000	60,000
Social sciences	67,000	70,300	60,200
Engineering	82,200	85,000	71,000
Health	70,000	75,000	67,000
Other educational institutions	58,000	59,000	56,000
Science	58,000	60,000	56,000
Biological, agricultural, and environmental life sciences	50,000	50,800	49,000
Computer and information sciences	S	S	S
Mathematics and statistics	61,000	61,000	S
Physical sciences	52,500	54,000	51,000
Psychology	66,000	70,000	62,000
Social sciences	58,000	58,000	58,000
Engineering	50,300	53,000	S
Health	68,000	S	67,000
Private-for-profit	100,000	102,000	90,000
Science	100,000	103,000	89,000
Biological, agricultural, and environmental life sciences	100,000	104,000	88,000
Computer and information sciences	120,000	120,000	106,000
Mathematics and statistics	103,000	103,000	105,000
Physical sciences	100,000	100,000	89,000
Psychology	90,000	100,000	79,000
Social sciences	110,000	114,000	100,000
Engineering	100,000	100,000	92,000
Health	100,000	106,000	85,000
Private not-for-profit	80,000	85,000	70,000
Science	78,000	84,000	68,100
Biological, agricultural, and environmental life sciences	75,500	82,700	63,000
Computer and information sciences	120,000	S	S
Mathematics and statistics	98,000	100,800	S
Physical sciences	94,000	95,000	80,000
Psychology	70,000	75,000	64,000
Social sciences	85,000	87,000	80,000
Engineering	100,000	100,000	S
Health	82,000	82,000	82,400
Federal government	91,000	95,000	83,000
Science	90,000	92,900	83,500
Biological, agricultural, and environmental life sciences	84,000	87,000	80,000
Computer and information sciences	101,000	103,000	S

TABLE 55. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2003
(Dollars)

Employment sector and field	Total	Male	Female
Mathematics and statistics	102,000	106,000	S
Physical sciences	100,000	100,000	83,000
Psychology	87,000	88,000	85,000
Social sciences	95,000	95,000	96,000
Engineering	98,000	100,000	80,000
Health	86,000	93,000	80,000
State and local government	68,000	70,000	65,000
Science	67,000	70,000	65,000
Biological, agricultural, and environmental life sciences	63,000	67,700	58,000
Computer and information sciences	S	S	S
Mathematics and statistics	85,000	103,400	S
Physical sciences	65,000	65,700	65,000
Psychology	68,000	70,000	65,000
Social sciences	70,000	70,000	70,000
Engineering	74,500	76,000	60,100
Health	70,000	S	74,400
Self-employed	90,000	100,000	80,000
Science	90,000	100,000	80,000
Biological, agricultural, and environmental life sciences	85,000	85,000	78,000
Computer and information sciences	S	S	S
Mathematics and statistics	95,000	80,000	S
Physical sciences	75,000	80,000	65,000
Psychology	95,000	105,000	84,000
Social sciences	80,000	100,000	40,000
Engineering	100,000	100,000	S
Health	100,000	100,000	65,000
Other	112,000	124,700	85,000
Science	117,000	140,000	85,000
Biological, agricultural, and environmental life sciences	72,000	S	S
Computer and information sciences	S	S	S
Mathematics and statistics	S	S	S
Physical sciences	100,000	102,000	S
Psychology	S	S	S
Social sciences	150,000	160,000	106,000
Engineering	115,000	105,000	S
Health	S	S	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 56. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2003 (corrected January 2011)
(Dollars)

Employment sector and field	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
All sectors	82,000	66,600	84,500	70,000	72,000	82,500	75,000
Science	80,000	65,000	79,000	67,500	70,000	80,000	72,000
Biological, agricultural, and environmental life sciences	76,000	S	70,000	60,000	67,300	80,000	72,000
Computer and information sciences	98,000	S	100,000	S	80,000	94,000	S
Mathematics and statistics	80,000	S	77,300	73,500	72,000	82,000	100,000
Physical sciences	87,000	S	85,000	80,000	78,800	89,000	86,000
Psychology	72,500	S	63,000	66,000	62,000	75,000	68,800
Social sciences	73,000	60,000	72,000	67,000	68,000	75,000	60,800
Engineering	97,300	S	95,000	85,000	89,000	100,000	100,000
Health	75,900	S	80,000	73,000	72,000	75,000	75,000
Universities and 4-year colleges	70,000	59,000	65,000	64,600	62,000	70,000	65,000
Science	67,000	59,000	60,800	62,000	60,500	69,500	64,000
Biological, agricultural, and environmental life sciences	66,800	S	55,000	60,000	62,000	70,000	64,000
Computer and information sciences	78,600	S	82,000	S	S	75,000	S
Mathematics and statistics	68,000	S	62,000	62,000	65,000	70,000	S
Physical sciences	68,000	S	60,000	54,600	66,000	70,000	65,000
Psychology	64,000	S	58,000	60,000	57,000	65,000	66,900
Social sciences	67,000	S	65,000	65,200	60,000	68,500	56,600
Engineering	82,200	S	76,200	72,000	80,000	85,000	95,000
Health	70,000	S	63,000	72,000	72,000	70,000	72,400
Other educational institutions	58,000	S	55,000	56,000	61,100	57,000	S
Science	58,000	S	60,000	56,000	61,000	57,000	S
Biological, agricultural, and environmental life sciences	50,000	S	48,000	S	S	50,000	S
Computer and information sciences	S	S	S	S	S	S	S
Mathematics and statistics	61,000	S	S	S	S	65,000	S
Physical sciences	52,500	S	S	S	S	51,200	S
Psychology	66,000	S	S	60,000	67,600	66,000	S
Social sciences	58,000	S	S	S	S	58,000	S
Engineering	50,300	S	S	S	S	50,000	S
Health	68,000	S	S	S	S	68,000	S
Private-for-profit	100,000	90,000	95,000	95,000	100,000	104,000	100,000
Science	100,000	S	90,000	86,000	100,000	104,000	100,000
Biological, agricultural, and environmental life sciences	100,000	S	85,000	80,000	96,800	103,000	93,000
Computer and information sciences	120,000	S	116,500	S	S	120,000	S
Mathematics and statistics	103,000	S	93,000	S	S	110,000	S
Physical sciences	100,000	S	90,000	86,000	95,000	103,300	116,000
Psychology	90,000	S	70,000	100,000	75,000	92,000	S
Social sciences	110,000	S	100,000	S	S	114,000	S
Engineering	100,000	S	100,000	110,000	100,000	105,000	100,000
Health	100,000	S	108,000	S	S	100,000	S
Private not-for-profit	80,000	S	75,000	70,000	78,000	80,600	73,000
Science	78,000	S	69,000	70,000	74,000	80,000	72,000
Biological, agricultural, and environmental life sciences	75,500	S	69,000	S	S	80,000	S
Computer and information sciences	120,000	S	S	S	S	S	S
Mathematics and statistics	98,000	S	S	S	S	98,000	S
Physical sciences	94,000	S	72,300	S	S	96,000	S
Psychology	70,000	S	57,700	60,000	65,000	70,000	S
Social sciences	85,000	S	69,000	S	S	85,000	S
Engineering	100,000	S	100,000	S	S	102,000	S
Health	82,000	S	S	S	S	87,000	S
Federal government	91,000	S	87,000	80,000	79,100	94,100	78,300

TABLE 56. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2003 (corrected January 2011)
(Dollars)

Employment sector and field	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Science	90,000	S	85,000	79,600	80,000	92,500	75,000
Biological, agricultural, and environmental life sciences	84,000	S	80,000	85,000	62,000	87,000	S
Computer and information sciences	101,000	S	S	S	S	103,000	S
Mathematics and statistics	102,000	S	86,000	S	S	106,200	S
Physical sciences	100,000	S	98,000	S	83,000	100,000	S
Psychology	87,000	S	S	S	S	87,000	S
Social sciences	95,000	S	83,000	80,000	S	98,200	S
Engineering	98,000	S	90,000	S	S	102,000	S
Health	86,000	S	S	S	S	85,000	S
State and local government	68,000	S	65,000	65,000	70,000	68,000	65,000
Science	67,000	S	64,500	65,000	70,000	68,000	65,000
Biological, agricultural, and environmental life sciences	63,000	S	60,000	S	S	65,000	S
Computer and information sciences	S	S	S	S	S	S	S
Mathematics and statistics	85,000	S	S	S	S	S	S
Physical sciences	65,000	S	60,500	S	S	67,000	S
Psychology	68,000	S	S	70,000	S	68,000	S
Social sciences	70,000	S	70,000	S	S	70,000	S
Engineering	74,500	S	74,500	S	S	75,000	S
Health	70,000	S	S	S	S	67,000	S
Self-employed	90,000	S	86,000	80,000	90,000	93,000	100,000
Science	90,000	S	90,000	80,000	90,000	90,000	S
Biological, agricultural, and environmental life sciences	85,000	S	100,000	S	S	80,000	S
Computer and information sciences	S	S	S	S	S	S	S
Mathematics and statistics	95,000	S	S	S	S	95,000	S
Physical sciences	75,000	S	75,000	S	S	75,000	S
Psychology	95,000	S	S	S	S	97,000	S
Social sciences	80,000	S	S	S	S	80,000	S
Engineering	100,000	S	83,000	S	S	100,000	S
Health	100,000	S	S	S	S	100,000	S
Other	112,000	S	140,000	S	S	117,900	S
Science	117,000	S	100,000	S	S	117,900	S
Biological, agricultural, and environmental life sciences	72,000	S	S	S	S	S	S
Computer and information sciences	S	S	S	S	S	S	S
Mathematics and statistics	S	S	S	S	S	S	S
Physical sciences	100,000	S	S	S	S	100,000	S
Psychology	S	S	S	S	S	S	S
Social sciences	150,000	S	140,000	S	S	160,000	S
Engineering	115,000	S	S	S	S	S	S
Health	S	S	S	S	S	S	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 57. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate and primary or secondary work activity: 2003
(Dollars)

Field	Total	Computer applications	Management, sales, administration	Professional services	R&D [a]	Teaching	Other
All fields	82,000	86,500	101,000	81,000	85,000	61,000	76,500
Science	80,000	85,000	100,000	80,000	82,700	60,000	72,200
Biological, agricultural, and environmental life sciences	76,000	75,000	98,000	99,400	75,000	57,000	70,000
Agricultural/food sciences	75,000	75,000	87,500	61,000	75,000	60,000	65,000
Biochemistry/biophysics	85,000	70,000	103,000	105,000	83,000	60,000	77,000
Cell/molecular biology	70,000	74,000	88,000	97,500	66,000	50,500	58,000
Environmental life sciences	72,000	S	88,000	70,000	72,000	55,000	67,000
Microbiology	80,000	S	108,000	105,000	75,000	55,000	65,000
Zoology	77,000	77,000	90,000	88,300	77,400	62,000	76,100
Other biological sciences	75,000	80,000	99,000	100,000	74,400	56,000	64,500
Computer and information sciences	98,000	105,000	120,000	S	110,000	72,000	S
Mathematics and statistics	80,000	85,000	110,000	97,000	90,000	61,000	67,000
Physical sciences	87,000	84,500	109,000	100,000	90,200	60,000	82,000
Astronomy/astrophysics	84,000	90,000	110,000	S	87,000	60,000	S
Chemistry, except biochemistry	87,000	80,000	105,000	105,000	90,000	55,400	80,000
Earth/atmospheric/ocean sciences	75,000	72,000	100,000	80,000	80,000	60,000	75,900
Physics	94,000	85,000	116,000	110,400	100,000	65,000	86,000
Psychology	72,500	90,000	82,000	75,000	78,200	60,000	71,900
Social sciences	73,000	79,000	95,000	84,000	80,000	60,000	66,000
Economics	93,000	90,000	125,000	135,000	100,000	72,000	83,400
Political sciences	70,000	82,000	105,000	100,000	74,000	55,000	69,500
Sociology	66,000	S	85,000	60,000	74,000	60,000	60,000
Other social sciences	65,000	60,000	80,000	69,500	68,400	55,000	55,000
Engineering	97,300	91,800	113,500	101,500	95,000	76,000	94,000
Aerospace/aeronautical/astronautical engineering	95,000	120,000	110,000	S	86,000	90,000	106,000
Chemical engineering	100,000	98,000	115,000	87,000	97,000	70,000	99,000
Civil engineering	85,000	102,000	104,000	104,000	81,500	72,100	85,000
Electrical/computer engineering	104,000	100,000	120,000	125,000	107,000	79,000	100,000
Materials/metallurgical engineering	94,500	82,000	112,000	85,000	90,000	72,000	83,000
Mechanical engineering	93,500	84,000	111,000	105,000	91,000	72,000	116,000
Other engineering	90,000	85,000	113,000	100,000	90,000	75,000	83,000
Health	75,900	80,000	90,000	77,000	79,000	62,000	74,000

S = suppressed due to too few cases (fewer than 200 weighted cases).

[a] R&D includes applied or basic research, design, and development.

NOTES: Salaries are rounded to nearest 100. If respondent reported more than one category of activity as the primary and secondary work activity, respondent's salary appears in both categories.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 58. Median annual salaries of full-time employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2003
(Dollars)

Employer location	Total	Science						Engineering	Health
		Biological, agricultural, and environmental life sciences	Computer and information sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences		
All locations	80,000	76,000	98,000	80,000	87,000	72,500	73,000	97,300	75,900
New England	82,000	81,000	105,000	82,000	90,000	75,000	78,000	97,400	80,000
Connecticut	90,000	100,000	S	72,000	100,000	80,000	82,000	93,000	75,000
Maine	68,000	75,500	S	S	51,100	75,000	60,000	S	S
Massachusetts	84,500	80,000	102,000	85,000	92,000	79,000	84,000	99,800	83,000
New Hampshire	63,000	50,000	S	86,000	63,000	60,000	65,000	100,000	S
Rhode Island	74,000	90,000	S	S	75,900	73,000	65,000	90,000	S
Vermont	65,000	63,000	S	S	S	60,000	60,000	110,000	S
Middle Atlantic	85,000	80,000	105,000	92,000	90,000	80,000	78,000	100,000	81,200
New Jersey	97,000	98,000	120,000	105,000	100,000	89,000	83,000	105,000	93,000
New York	84,000	78,000	105,000	95,000	90,000	80,000	80,000	100,000	82,000
Pennsylvania	75,000	74,500	72,000	78,000	83,000	75,000	72,700	100,000	76,000
East North Central	75,000	75,000	80,000	73,000	84,000	70,000	68,400	89,000	70,000
Illinois	75,000	75,000	102,000	84,800	84,000	70,000	75,000	95,000	65,000
Indiana	73,000	75,000	S	68,000	92,000	75,000	67,300	81,700	56,500
Michigan	76,000	80,000	62,000	71,000	84,000	72,000	70,000	94,000	82,000
Ohio	73,000	72,000	83,000	84,000	81,000	70,000	63,400	86,000	72,000
Wisconsin	67,000	65,000	S	60,000	75,600	62,400	69,500	83,800	64,000
West North Central	69,700	72,000	88,000	70,000	75,000	65,000	60,000	82,000	72,000
Iowa	73,000	82,000	S	68,000	59,400	60,000	72,000	70,000	54,000
Kansas	62,900	60,000	S	S	55,000	74,000	52,000	79,900	S
Minnesota	70,000	72,000	S	91,700	86,000	63,000	55,000	96,000	75,000
Missouri	65,000	70,000	S	67,500	75,000	56,000	63,000	85,500	65,000
Nebraska	66,800	69,000	S	S	S	S	S	S	S
North Dakota	66,000	75,000	S	S	55,000	75,000	65,000	83,000	S
South Dakota	61,000	69,000	S	S	S	S	S	S	S
South Atlantic	80,000	80,000	90,000	85,000	85,500	72,500	80,000	96,000	80,000
Delaware	97,800	94,800	S	S	100,000	S	S	111,700	S
District of Columbia	104,000	92,000	S	75,000	106,000	80,000	110,000	106,000	89,500
Florida	69,000	70,000	80,000	56,000	70,000	70,000	56,500	84,000	69,000
Georgia	70,000	70,000	S	70,000	80,000	68,100	60,000	87,000	79,900
Maryland	86,000	89,000	90,000	98,000	96,000	76,000	71,000	100,000	85,700
North Carolina	75,000	80,000	S	70,000	79,000	72,000	60,000	100,000	80,000
South Carolina	70,000	75,000	S	72,000	70,000	61,000	60,000	81,300	70,000
Virginia	83,000	76,600	115,000	103,000	86,200	75,000	80,000	98,500	88,700
West Virginia	74,000	74,000	S	S	90,000	S	43,800	78,000	S
East South Central	71,000	71,000	80,000	64,000	75,000	75,000	67,000	85,000	66,000
Alabama	72,500	75,000	S	86,500	75,000	65,000	60,000	86,000	77,200
Kentucky	70,000	72,000	S	64,000	65,700	80,000	56,000	85,000	S
Mississippi	70,000	68,000	S	S	72,000	73,000	70,000	78,000	S
Tennessee	74,000	70,000	S	61,300	80,000	75,000	87,300	87,300	77,000
West South Central	75,000	73,000	85,000	75,700	85,500	68,000	68,000	95,000	70,800
Arkansas	65,000	65,000	S	S	87,000	61,000	65,500	80,000	S
Louisiana	70,000	70,000	S	64,000	80,000	60,000	79,000	103,000	54,000
Oklahoma	65,000	70,000	S	S	73,000	63,000	50,000	75,000	S
Texas	78,000	75,000	86,100	81,000	87,000	70,000	70,000	98,000	70,800
Mountain	72,000	70,000	81,000	65,000	89,000	65,000	64,000	100,000	72,000
Arizona	68,000	65,000	S	S	70,000	62,300	70,000	90,000	S
Colorado	74,000	70,000	86,000	53,000	94,000	72,000	62,000	85,000	72,000

TABLE 58. Median annual salaries of full-time employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2003
(Dollars)

Employer location	Total	Science							
		Biological, agricultural, and environmental life sciences	Computer and information sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Engineering	Health
Idaho	65,000	70,000	S	S	77,800	56,000	S	93,000	S
Montana	60,000	60,000	S	50,000	67,500	70,000	S	S	S
New Mexico	83,000	74,500	S	85,000	104,000	67,900	56,000	108,400	86,000
Nevada	80,000	78,000	S	S	93,000	110,000	S	108,000	S
Utah	70,300	72,000	S	S	72,500	62,000	70,000	100,000	S
Wyoming	71,000	70,000	S	S	S	S	S	S	S
Pacific	85,000	80,000	115,000	85,000	95,000	76,800	80,000	105,000	80,000
Alaska	65,000	60,000	S	S	60,000	S	S	S	S
California	90,000	85,000	120,000	85,000	100,000	80,000	88,000	110,000	82,000
Hawaii	72,000	70,000	S	S	86,000	70,600	68,000	S	S
Oregon	72,000	74,000	71,000	63,000	85,000	57,000	72,000	88,000	80,000
Washington	75,000	67,000	105,000	83,000	82,000	70,000	70,300	93,000	80,000
Puerto Rico	58,500	58,000	S	S	60,000	60,000	S	S	S
Other U.S. territories and other areas	80,000	60,000	S	S	S	S	S	S	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTES: Because survey sample design does not include geography, reliability of estimates in some states may be poor due to small sample size. Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 59. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, and faculty rank: 2003
(Dollars)

Field and sex	Total	Full professor	Associate professor	Assistant professor	Instructor/ lecturer	All other faculty	Rank not applicable
All fields	70,000	93,000	66,000	56,800	49,000	49,000	49,000
Male	73,000	95,000	68,000	60,000	50,000	44,000	50,000
Female	60,000	87,500	63,000	54,000	49,000	S	45,000
Science	67,000	90,000	65,000	55,000	48,000	44,000	48,000
Male	71,000	90,200	65,200	56,000	48,000	44,000	50,000
Female	60,000	87,000	62,000	52,300	47,600	S	45,000
Biological, agricultural, and environmental life sciences	66,800	98,000	70,000	60,000	48,000	S	42,000
Male	70,300	98,000	70,400	62,400	48,000	S	42,000
Female	57,000	95,000	70,000	57,000	45,000	S	41,000
Computer and information sciences	78,600	88,000	80,000	72,000	S	S	80,000
Male	80,000	88,000	80,000	72,000	S	S	80,000
Female	76,000	S	80,000	72,300	S	S	S
Mathematics and statistics	68,000	88,100	60,000	50,200	49,000	S	50,000
Male	71,200	88,100	60,000	50,000	52,000	S	57,800
Female	59,000	88,000	59,700	52,300	49,000	S	43,000
Physical sciences	68,000	93,000	61,000	52,000	45,000	44,000	60,000
Male	70,500	94,000	63,500	53,000	45,000	44,000	60,000
Female	57,000	85,700	57,000	51,000	39,000	S	51,000
Psychology	64,000	85,000	60,100	52,500	50,000	S	57,000
Male	70,000	85,000	61,000	55,000	60,000	S	57,000
Female	60,000	84,000	60,000	51,000	46,300	S	56,000
Social sciences	67,000	87,000	62,000	50,000	47,000	S	63,000
Male	70,300	88,000	62,000	51,000	45,500	S	67,000
Female	60,200	80,000	61,400	50,000	49,000	S	60,000
Engineering	82,200	104,800	75,000	70,000	57,000	S	60,000
Male	85,000	105,000	75,000	70,000	55,000	S	62,000
Female	71,000	100,000	75,000	70,000	S	S	42,000
Health	70,000	97,000	69,600	60,000	65,000	S	55,000
Male	75,000	114,000	70,000	65,000	S	S	60,000
Female	67,000	90,000	69,000	58,000	65,000	S	51,000

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients

TABLE 60. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, faculty rank, and years since doctorate: 2003

(Dollars)

Field and sex	Total		Full professor		Associate professor		Assistant professor		Instructor/ lecturer		All other faculty		Rank not applicable	
	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more
All fields	52,000	80,000	70,000	94,000	60,000	69,500	55,000	62,000	48,000	51,000	S	65,000	42,000	75,000
Male	53,000	84,300	70,000	95,000	62,000	70,000	57,400	63,000	47,000	55,000	S	65,000	42,900	80,000
Female	51,000	73,000	65,000	88,000	58,800	66,400	53,000	60,000	49,000	48,000	S	S	42,000	66,000
Science	50,000	80,000	62,000	90,000	59,000	67,900	53,200	60,000	45,000	50,000	S	65,000	42,000	73,000
Male	51,000	81,000	70,000	91,000	60,000	69,000	55,000	62,000	45,000	55,000	S	65,000	42,000	77,600
Female	50,000	72,000	58,000	87,500	56,000	65,000	51,000	59,900	46,000	48,000	S	S	42,000	65,000
Biological, agricultural, and environmental life sciences	46,000	80,000	53,000	98,000	56,000	73,000	58,000	65,000	45,000	48,400	S	S	40,000	60,000
Male	48,000	83,000	S	98,000	55,000	72,000	60,000	65,000	45,000	65,000	S	S	40,400	60,200
Female	44,000	76,000	S	96,000	57,000	73,000	53,000	63,000	45,000	48,000	S	S	40,000	53,000
Computer and information sciences	73,000	84,000	S	90,000	80,000	80,000	72,000	S	S	S	S	S	80,000	S
Male	74,300	83,100	S	90,000	81,000	75,000	72,000	S	S	S	S	S	80,000	S
Female	72,300	87,000	S	S	S	S	72,500	S	S	S	S	S	S	S
Mathematics and statistics	50,400	78,000	S	89,000	54,000	60,000	51,000	47,600	49,000	48,000	S	S	46,000	76,000
Male	50,000	79,800	S	90,000	53,000	62,000	50,000	S	S	74,000	S	S	46,000	80,000
Female	52,300	67,600	S	88,000	56,000	60,000	53,000	S	S	S	S	S	S	S
Physical sciences	50,000	82,100	60,000	94,000	58,000	63,000	53,000	51,000	40,500	51,000	S	S	45,000	90,000
Male	51,000	85,000	60,000	94,600	58,700	65,000	53,300	51,000	45,000	50,000	S	S	46,000	90,600
Female	50,000	63,000	S	85,700	52,200	58,400	51,000	51,000	S	S	S	S	42,000	81,000
Psychology	51,300	75,500	S	85,000	56,000	64,000	51,000	65,000	50,000	50,000	S	S	50,000	72,000
Male	52,000	80,000	S	85,000	59,000	68,000	50,000	65,000	S	S	S	S	45,000	72,000
Female	51,200	70,000	S	84,000	53,000	62,000	51,000	60,000	46,300	50,000	S	S	51,000	72,000
Social sciences	52,500	77,000	75,000	88,000	60,000	65,000	50,000	54,400	40,000	51,000	S	S	53,800	74,000
Male	54,000	80,000	75,000	88,300	61,000	65,000	50,000	54,400	42,000	47,000	S	S	54,500	74,000
Female	52,000	71,000	62,000	81,200	57,000	65,000	50,000	51,200	40,000	60,000	S	S	53,000	71,000
Engineering	68,000	96,000	80,000	105,000	75,000	76,200	70,000	73,000	60,000	S	S	S	48,000	105,000
Male	68,000	98,600	80,000	105,000	75,000	76,200	69,200	73,000	S	S	S	S	50,000	105,000
Female	62,500	84,000	S	100,000	72,000	80,000	70,000	S	S	S	S	S	40,000	S
Health	60,000	80,000	79,000	98,000	62,000	72,000	59,000	62,000	66,000	S	S	S	45,000	77,000
Male	62,000	96,000	S	114,000	62,000	73,000	62,000	S	S	S	S	S	50,000	S
Female	60,000	76,700	79,000	90,000	62,000	72,000	57,000	60,000	66,000	S	S	S	44,000	76,500

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 61. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and faculty rank: 2003 (corrected January 2011)
(Dollars)

Field and race/ethnicity	Total	Full professor	Associate professor	Assistant professor	Instructor/ lecturer	All other faculty	Rank not applicable
All fields	70,000	93,000	66,000	56,800	49,000	49,000	49,000
American Indian/Alaska Native	59,000	S	S	S	S	S	S
Asian	65,000	100,000	70,000	62,200	45,000	S	40,200
Black	64,600	88,000	65,000	58,000	53,000	S	52,000
Hispanic	62,000	83,000	65,400	56,300	40,000	S	49,000
White	70,000	93,000	65,000	55,000	49,000	49,000	52,000
Other race[a]	65,000	84,000	62,000	50,000	S	S	60,000
Science	67,000	90,000	65,000	55,000	48,000	44,000	48,000
American Indian/Alaska Native	59,000	S	S	S	S	S	S
Asian	60,800	93,900	70,000	60,000	45,000	S	41,000
Black	62,000	85,000	61,000	55,000	53,000	S	50,000
Hispanic	60,500	82,500	63,000	54,000	S	S	48,000
White	69,500	90,000	64,000	54,000	48,400	49,000	50,800
Other race[a]	64,000	82,900	60,000	50,000	S	S	53,000
Biological, agricultural, and environmental life sciences	66,800	98,000	70,000	60,000	48,000	S	42,000
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	55,000	108,000	76,000	64,000	48,000	S	40,000
Black	60,000	80,000	73,000	55,000	S	S	43,000
Hispanic	62,000	90,000	70,000	62,000	S	S	40,000
White	70,000	97,400	70,000	60,000	48,000	S	42,000
Other race[a]	64,000	84,000	S	S	S	S	S
Computer and information sciences	78,600	88,000	80,000	72,000	S	S	80,000
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	82,000	88,000	80,000	72,000	S	S	S
Black	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S
White	75,000	90,000	80,000	72,300	S	S	80,000
Other race[a]	S	S	S	S	S	S	S
Mathematics and statistics	68,000	88,100	60,000	50,200	49,000	S	50,000
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	62,000	80,000	55,700	50,000	S	S	S
Black	62,000	S	S	S	S	S	S
Hispanic	65,000	S	S	S	S	S	S
White	70,000	90,000	60,000	51,000	52,000	S	50,000
Other race[a]	S	S	S	S	S	S	S
Physical sciences	68,000	93,000	61,000	52,000	45,000	44,000	60,000
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	60,000	100,900	66,500	57,000	S	S	40,200
Black	54,600	109,000	S	S	S	S	S
Hispanic	66,000	83,500	60,000	S	S	S	S
White	70,000	91,900	61,000	52,000	45,000	44,000	66,500
Other race[a]	65,000	110,000	S	S	S	S	S
Psychology	64,000	85,000	60,100	52,500	50,000	S	57,000
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	58,000	S	65,000	50,000	S	S	47,000
Black	60,000	S	58,000	52,000	S	S	58,000
Hispanic	57,000	S	60,000	50,000	S	S	50,000
White	65,000	85,000	60,100	52,500	46,300	S	58,000
Other race[a]	66,900	S	S	S	S	S	S
Social sciences	67,000	87,000	62,000	50,000	47,000	S	63,000
American Indian/Alaska Native	S	S	S	S	S	S	S

TABLE 61. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and faculty rank: 2003 (corrected January 2011)
(Dollars)

Field and race/ethnicity	Total	Full professor	Associate professor	Assistant professor	Instructor/ lecturer	All other faculty	Rank not applicable
Asian	65,000	80,000	65,000	56,000	S	S	55,000
Black	65,200	85,000	60,000	57,000	S	S	66,000
Hispanic	60,000	81,400	61,000	48,000	S	S	S
White	68,500	88,000	62,000	50,000	47,000	S	63,000
Other race[a]	56,600	71,000	S	48,000	S	S	S
Engineering	82,200	104,800	75,000	70,000	57,000	S	60,000
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	76,200	104,000	72,500	68,000	S	S	40,000
Black	72,000	100,000	72,000	S	S	S	S
Hispanic	80,000	85,500	81,000	70,000	S	S	S
White	85,000	105,000	75,000	70,000	60,000	S	74,000
Other race[a]	95,000	S	S	S	S	S	S
Health	70,000	97,000	69,600	60,000	65,000	S	55,000
American Indian/Alaska Native	S	S	S	S	S	S	S
Asian	63,000	S	S	66,000	S	S	36,000
Black	72,000	S	S	64,500	S	S	S
Hispanic	72,000	S	S	S	S	S	S
White	70,000	95,000	69,300	58,000	60,000	S	60,000
Other race[a]	72,400	S	S	S	S	S	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 62. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, and tenure status: 2003

(Dollars)

Field and sex	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All fields	70,000	80,000	58,000	60,000	53,000
Male	73,000	84,000	60,000	63,000	55,000
Female	60,000	72,400	54,700	56,000	50,000
Science	67,000	80,000	55,000	58,300	51,000
Male	71,000	80,500	58,000	61,000	54,000
Female	60,000	72,000	52,300	55,000	48,200
Biological, agricultural, and environmental life sciences	66,800	84,000	63,000	60,000	45,000
Male	70,300	85,000	65,000	63,000	45,000
Female	57,000	80,000	58,300	56,000	42,600
Computer and information sciences	78,600	84,000	72,000	72,000	80,000
Male	80,000	83,100	71,000	78,600	80,000
Female	76,000	84,000	74,200	S	S
Mathematics and statistics	68,000	76,000	52,300	49,500	50,000
Male	71,200	78,000	52,400	50,000	57,800
Female	59,000	73,000	52,300	49,000	47,000
Physical sciences	68,000	80,000	53,400	59,000	60,000
Male	70,500	83,000	54,100	61,000	62,000
Female	57,000	63,000	51,300	55,000	45,000
Psychology	64,000	74,800	51,000	58,000	60,000
Male	70,000	80,000	50,200	60,000	62,000
Female	60,000	67,000	51,000	55,000	57,000
Social sciences	67,000	75,000	51,400	55,000	60,000
Male	70,300	78,800	52,000	55,000	62,500
Female	60,200	69,500	50,000	54,000	59,000
Engineering	82,200	94,400	70,000	62,000	70,000
Male	85,000	95,000	70,000	70,000	71,000
Female	71,000	80,000	70,000	52,000	50,000
Health	70,000	78,000	60,000	68,500	69,000
Male	75,000	81,300	63,500	77,200	69,000
Female	67,000	75,300	58,000	60,000	68,500

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 63. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, tenure status, and years since doctorate: 2003

(Dollars)

Field and sex	Total		Tenured		Not tenured				Tenure not applicable	
					On tenure track		Not on tenure track			
	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more	Less than 10	10 or more
All fields	52,000	80,000	60,000	84,000	56,000	66,600	52,000	72,000	44,000	76,500
Male	53,000	84,300	62,000	85,000	58,000	70,000	52,000	79,200	44,000	80,000
Female	51,000	73,000	57,000	77,000	53,000	63,000	52,000	65,000	43,500	67,000
Science	50,000	80,000	58,000	82,000	54,000	66,000	50,300	70,000	43,000	75,000
Male	51,000	81,000	60,000	84,000	55,000	66,600	50,000	78,000	43,000	79,000
Female	50,000	72,000	55,000	75,000	51,000	64,000	50,300	65,000	43,000	63,200
Biological, agricultural, and environmental life sciences	46,000	80,000	53,000	86,100	59,000	74,000	51,000	70,000	40,600	70,000
Male	48,000	83,000	55,000	87,000	61,000	74,000	51,600	77,000	40,500	73,000
Female	44,000	76,000	52,000	85,000	53,000	72,500	50,300	65,000	40,700	62,000
Computer and information sciences	73,000	84,000	80,000	85,000	72,000	S	73,000	S	80,000	S
Male	74,300	83,100	80,000	85,000	71,000	S	S	S	80,000	S
Female	72,300	87,000	S	87,000	74,200	S	S	S	S	S
Mathematics and statistics	50,400	78,000	55,000	80,000	51,300	55,000	49,000	67,600	46,500	75,000
Male	50,000	79,800	55,000	80,000	51,300	63,000	43,400	75,000	47,000	80,000
Female	52,300	67,600	S	76,000	52,300	S	53,000	S	S	S
Physical sciences	50,000	82,100	58,000	83,100	53,000	55,000	47,000	84,000	44,000	87,000
Male	51,000	85,000	60,000	85,000	54,000	55,000	47,000	86,200	44,900	90,000
Female	50,000	63,000	50,700	70,000	51,300	51,000	48,000	56,000	42,000	66,500
Psychology	51,300	75,500	55,000	80,000	50,000	57,000	54,000	66,000	50,000	73,000
Male	52,000	80,000	59,700	81,000	47,800	87,000	57,000	72,000	50,000	82,800
Female	51,200	70,000	52,000	70,000	51,000	51,000	52,000	63,000	50,000	72,000
Social sciences	52,500	77,000	60,000	79,000	50,000	63,000	50,000	66,000	53,000	66,000
Male	54,000	80,000	60,000	81,000	51,900	61,000	50,000	67,000	55,000	67,000
Female	52,000	71,000	59,000	72,000	50,000	70,000	46,800	66,000	53,000	62,500
Engineering	68,000	96,000	75,000	98,600	70,000	74,400	57,000	95,000	50,000	103,000
Male	68,000	98,600	75,000	100,000	70,000	74,400	68,000	75,000	50,000	104,000
Female	62,500	84,000	72,000	84,000	70,000	S	50,000	S	47,000	S
Health	60,000	80,000	62,000	84,500	58,600	62,000	60,000	80,000	55,000	82,000
Male	62,000	96,000	62,000	96,000	63,500	S	70,000	130,000	50,000	110,000
Female	60,000	76,700	62,000	80,000	57,800	61,200	60,000	73,000	60,000	76,500

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 64. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and tenure status: 2003 (corrected January 2011)

(Dollars)

Field and race/ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All fields	70,000	80,000	58,000	60,000	53,000
American Indian/Alaska Native	59,000	S	S	S	S
Asian	65,000	84,000	65,000	58,300	42,000
Black	64,600	74,000	59,000	59,000	56,000
Hispanic	62,000	72,000	57,000	60,000	52,000
White	70,000	80,500	57,000	60,000	56,000
Other race[a]	65,000	80,000	54,000	52,000	60,000
Science	67,000	80,000	55,000	58,300	51,000
American Indian/Alaska Native	59,000	S	S	S	S
Asian	60,800	80,000	65,000	58,000	42,000
Black	62,000	73,000	55,000	55,000	54,000
Hispanic	60,500	70,000	54,000	60,000	50,000
White	69,500	80,000	55,000	59,000	54,000
Other race[a]	64,000	75,000	50,000	S	60,000
Biological, agricultural, and environmental life sciences	66,800	84,000	63,000	60,000	45,000
American Indian/Alaska Native	S	S	S	S	S
Asian	55,000	88,000	69,000	60,000	40,000
Black	60,000	75,000	55,000	S	45,000
Hispanic	62,000	70,000	65,000	63,000	49,000
White	70,000	85,000	62,000	60,000	46,000
Other race[a]	64,000	75,000	S	S	50,000
Computer and information sciences	78,600	84,000	72,000	72,000	80,000
American Indian/Alaska Native	S	S	S	S	S
Asian	82,000	85,000	74,300	S	S
Black	S	S	S	S	S
Hispanic	S	S	S	S	S
White	75,000	84,000	72,000	73,000	72,500
Other race[a]	S	S	S	S	S
Mathematical sciences	68,000	76,000	52,300	49,500	50,000
American Indian/Alaska Native	S	S	S	S	S
Asian	62,000	68,500	52,300	S	48,000
Black	62,000	74,000	S	S	S
Hispanic	65,000	65,000	S	S	S
White	70,000	80,000	51,300	51,000	52,000
Other race[a]	S	S	S	S	S
Physical sciences	68,000	80,000	53,400	59,000	60,000
American Indian/Alaska Native	S	S	S	S	S
Asian	60,000	85,000	60,000	52,000	43,000
Black	54,600	90,000	S	S	S
Hispanic	66,000	80,000	S	S	S
White	70,000	80,000	53,000	61,000	65,600
Other race[a]	65,000	110,000	S	S	60,000
Psychology	64,000	74,800	51,000	58,000	60,000
American Indian/Alaska Native	S	S	S	S	S
Asian	58,000	73,400	55,000	S	50,000
Black	60,000	62,000	52,000	S	58,000
Hispanic	57,000	60,000	50,000	S	50,000
White	65,000	76,000	51,000	58,000	60,000
Other race[a]	66,900	72,000	S	S	S
Social sciences	67,000	75,000	51,400	55,000	60,000
American Indian/Alaska Native	S	S	S	S	S

TABLE 64. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and tenure status: 2003 (corrected January 2011)

(Dollars)

Field and race/ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Asian	65,000	72,000	57,000	50,000	60,000
Black	65,200	74,000	60,000	S	66,000
Hispanic	60,000	74,000	48,000	S	60,500
White	68,500	75,000	51,000	55,000	60,000
Other race[a]	56,600	71,000	S	S	S
Engineering	82,200	94,400	70,000	62,000	70,000
American Indian/Alaska Native	S	S	S	S	S
Asian	76,200	93,000	68,200	60,000	45,000
Black	72,000	92,000	65,000	S	S
Hispanic	80,000	85,500	78,000	S	S
White	85,000	95,000	70,400	62,000	80,000
Other race[a]	95,000	S	S	S	S
Health sciences	70,000	78,000	60,000	68,500	69,000
American Indian/Alaska Native	S	S	S	S	S
Asian	63,000	96,000	63,000	S	34,000
Black	72,000	86,000	62,000	S	S
Hispanic	72,000	S	S	S	S
White	70,000	76,700	58,000	68,500	72,000
Other race[a]	72,400	S	S	S	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 65. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)
(Thousands of dollars)

Occupation	All full-time employed			American Indian/ Alaska Native			Asian			Black			Hispanic			White			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All occupations	82.0	86.5	70.0	66.6	65.0	68.0	84.5	87.0	74.0	70.0	72.0	69.0	72.0	78.0	62.0	82.5	87.3	70.0	75.0	83.0	65.0
Science occupations	75.0	80.0	65.0	66.6	72.0	S	76.7	80.0	70.0	64.0	65.0	63.3	65.0	70.0	60.0	75.0	80.0	64.0	70.0	73.6	60.0
Biological, agricultural, other life scientist	71.0	75.0	63.0	S	S	S	70.0	72.0	66.0	60.0	60.0	56.1	62.0	65.0	56.0	72.0	75.0	63.0	66.8	66.8	73.0
Agricultural/food scientist	75.0	76.5	65.0	S	S	S	70.0	73.0	56.0	S	S	S	80.0	S	S	78.0	79.0	70.0	S	S	S
Biochemist/biophysicist	76.0	80.0	68.0	S	S	S	75.0	78.0	73.0	S	S	S	52.0	S	S	78.0	80.0	68.0	S	S	S
Biological scientist	65.7	70.0	58.0	S	S	S	57.0	58.0	55.0	52.0	S	S	56.0	62.0	55.0	68.6	72.0	60.0	70.0	S	S
Forestry/conservation scientist	69.1	69.1	73.0	S	S	S	S	S	S	S	S	S	S	S	S	72.0	70.0	73.0	S	S	S
Medical scientist	80.0	87.0	70.0	S	S	S	74.0	76.7	69.0	70.0	79.6	65.0	70.0	70.0	62.0	84.0	95.0	73.0	S	S	S
Postsecondary teacher, agricultural/ other natural sciences	70.0	72.0	60.0	S	S	S	S	S	S	S	S	S	S	S	S	70.4	72.0	59.0	S	S	S
Postsecondary teacher, biological sciences	63.5	66.0	57.0	S	S	S	70.0	76.0	66.0	55.0	60.0	51.0	60.0	61.0	54.0	63.0	65.0	57.0	65.0	65.0	S
Other biological/agricultural/life scientist	68.8	72.0	62.5	S	S	S	63.0	62.0	67.0	S	S	S	S	S	S	72.0	76.5	62.0	S	S	S
Computer and information scientist	90.0	91.8	80.0	S	S	S	88.0	90.0	80.0	68.0	68.0	S	76.0	76.0	S	93.0	94.0	81.0	98.0	100.0	S
Computer/information scientist	96.5	98.0	85.0	S	S	S	91.8	94.0	81.5	69.0	S	S	83.0	83.9	S	100.0	100.0	93.0	105.0	105.0	S
Postsecondary teacher, computer science	76.0	76.0	72.3	S	S	S	75.0	75.0	76.0	S	S	S	S	S	S	76.0	78.0	72.3	S	S	S
Mathematical scientist	75.0	77.0	64.0	S	S	S	70.0	70.0	70.0	71.0	68.0	S	65.0	65.2	S	76.0	79.8	62.0	S	S	S
Mathematical scientist	93.0	97.9	85.0	S	S	S	86.0	86.0	85.0	73.5	S	S	80.0	S	S	100.0	102.0	90.0	S	S	S
Postsecondary teacher, mathematics/statistics	62.0	65.0	55.7	S	S	S	58.0	58.0	59.0	62.0	62.0	S	61.1	63.0	S	64.0	70.0	55.0	S	S	S
Physical scientist	80.0	83.1	70.0	S	S	S	80.0	80.0	80.0	72.0	75.0	S	72.0	74.0	65.0	82.0	84.2	67.0	80.0	91.9	S
Chemist, except biochemist	86.0	89.0	80.0	S	S	S	83.0	84.0	80.0	80.0	82.0	S	76.5	74.5	S	91.0	94.1	82.0	120.0	120.0	S
Earth/atmospheric/ocean scientist	84.7	86.0	67.0	S	S	S	69.0	72.3	S	S	S	S	78.0	80.0	S	86.0	88.0	68.7	S	S	S
Physicist/astronomer	96.0	99.1	85.0	S	S	S	85.0	86.0	S	S	S	S	79.0	S	S	99.0	100.0	85.0	S	S	S
Postsecondary teacher, chemistry	60.0	62.0	53.4	S	S	S	67.0	61.0	S	53.0	55.0	S	60.0	58.0	S	60.0	62.5	53.0	S	S	S
Postsecondary teacher, physics	67.5	68.0	62.5	S	S	S	75.0	75.0	S	S	S	S	68.3	S	S	65.3	66.6	62.5	S	S	S
Postsecondary teacher, other physical sciences	65.0	68.0	58.4	S	S	S	74.0	74.0	S	S	S	S	S	S	S	64.0	67.3	58.4	S	S	S
Other physical scientist	82.0	85.3	72.0	S	S	S	75.0	75.0	S	S	S	S	S	S	S	91.6	95.0	72.0	S	S	S
Psychologist	70.0	76.0	62.4	S	S	S	63.0	64.5	60.0	67.0	65.0	67.0	62.0	60.0	62.0	70.0	78.2	62.0	68.0	72.5	65.0
Psychologist	75.0	80.0	68.0	S	S	S	64.5	64.5	62.0	70.0	75.0	67.0	70.0	75.5	70.0	75.0	81.0	68.0	68.0	60.0	68.8
Postsecondary teacher, psychology	61.2	66.2	56.0	S	S	S	63.0	S	60.0	62.0	62.0	68.0	57.0	55.4	57.8	61.3	67.6	56.0	72.0	S	60.0
Social scientist	70.0	72.0	62.3	S	S	S	70.0	75.0	64.0	61.5	60.0	65.0	61.2	70.0	57.0	70.0	73.0	63.4	63.0	72.0	S
Economist	108.0	110.0	100.0	S	S	S	93.0	98.0	93.0	S	S	S	110.0	110.0	S	114.0	120.0	105.0	S	S	S
Political scientist	80.0	92.0	75.0	S	S	S	S	S	S	S	S	S	S	S	S	84.0	95.0	80.0	S	S	S
Postsecondary teacher, economics	75.0	78.0	70.0	S	S	S	71.0	72.0	S	60.0	60.0	S	S	S	S	79.4	80.0	70.0	S	S	S
Postsecondary teacher, political science	60.0	60.0	59.9	S	S	S	55.0	S	S	60.0	60.0	S	56.0	S	S	60.0	60.0	60.0	S	S	S
Postsecondary teacher, sociology	60.0	63.0	55.0	S	S	S	65.0	67.0	S	58.1	58.0	S	57.0	S	S	60.0	62.0	55.0	S	S	S
Postsecondary teacher, other social sciences	60.0	64.2	56.0	S	S	S	58.0	61.0	55.0	60.0	S	S	52.0	50.0	S	60.2	65.0	57.0	S	S	S
Sociologist/anthropologist	68.0	71.4	65.5	S	S	S	S	S	S	S	S	S	S	S	S	70.0	72.7	67.0	S	S	S
Other social scientist	70.0	76.1	66.0	S	S	S	70.0	S	S	61.5	S	S	S	S	S	70.0	80.0	65.0	S	S	S

TABLE 65. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003 (corrected January 2011)
(Thousands of dollars)

Occupation	All full-time employed			American Indian/ Alaska Native			Asian			Black			Hispanic			White			Other race[a]		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Engineering occupations	92.7	94.0	85.0	S	S	S	90.0	91.5	83.4	80.0	80.0	S	87.0	87.3	78.0	95.0	95.0	86.0	94.0	98.0	S
Aerospace/aeronautical/ astronautical engineer	100.0	100.0	S	S	S	S	95.0	95.0	S	S	S	S	S	S	S	104.0	103.0	S	S	S	S
Chemical engineer	95.0	97.0	90.0	S	S	S	94.0	95.0	85.0	S	S	S	S	S	S	99.0	100.0	92.0	S	S	S
Civil/architectural/sanitary engineer	81.5	81.5	S	S	S	S	85.0	85.0	S	S	S	S	80.0	80.0	S	81.5	81.0	S	S	S	S
Electrical engineer	103.0	105.0	94.0	S	S	S	100.0	100.0	94.0	96.0	96.0	S	104.0	110.0	S	108.0	110.0	93.0	100.0	S	S
Materials/metallurgical engineer	94.0	95.0	90.0	S	S	S	94.0	100.0	S	S	S	S	S	S	S	95.0	93.0	S	S	S	S
Mechanical engineer	93.0	94.0	85.0	S	S	S	87.0	89.0	82.0	S	S	S	S	S	S	100.0	100.0	S	S	S	S
Postsecondary teacher, engineering	82.2	83.2	72.0	S	S	S	83.7	84.0	S	72.0	70.0	S	76.0	76.0	S	83.0	84.0	75.0	80.0	100.0	S
Other engineer	88.8	90.0	85.5	S	S	S	85.0	85.0	82.0	S	S	S	94.0	100.0	S	90.7	92.7	88.0	S	S	S
Science and engineering-related occupations	97.0	108.0	73.5	S	S	S	100.0	105.0	67.0	75.0	84.0	65.0	91.0	110.0	73.0	98.0	110.0	74.0	98.9	110.0	70.0
Health-related occupation, except postsecondary teacher	100.0	115.0	80.0	S	S	S	85.0	105.0	60.0	77.3	89.5	61.0	100.0	100.0	S	100.0	120.0	81.3	72.0	103.0	S
Postsecondary teacher, health and related sciences	75.0	87.0	68.0	S	S	S	70.0	82.0	55.0	73.0	80.0	69.5	73.0	S	72.0	76.0	89.0	68.0	72.4	S	S
S&E manager	120.0	123.0	100.0	S	S	S	120.0	125.0	111.3	98.5	105.0	S	120.0	132.4	S	120.0	124.0	100.0	99.0	S	S
S&E precollege teacher	48.0	48.0	48.5	S	S	S	S	S	S	S	S	S	S	S	S	48.0	48.0	48.0	S	S	S
S&E technician/technologist	80.0	83.0	60.0	S	S	S	80.0	83.0	63.0	S	S	S	S	S	S	80.0	83.0	53.0	S	S	S
Other S&E-related occupation	99.0	99.0	S	S	S	S	S	S	S	S	S	S	S	S	S	99.0	99.0	S	S	S	S
Non-science and engineering occupations	100.0	107.0	80.0	S	S	S	102.0	110.0	84.0	80.0	82.0	75.0	85.0	100.0	78.0	100.0	108.0	82.0	120.0	120.0	S
Arts/humanities-related occupation	65.0	65.0	65.0	S	S	S	65.0	S	S	S	S	S	S	S	S	65.0	65.0	65.0	S	S	S
Management-related occupation	96.0	100.0	87.0	S	S	S	98.0	100.0	85.0	75.0	80.0	S	110.0	110.0	S	95.2	100.0	90.0	S	S	S
Non-S&E manager	124.2	130.0	102.0	S	S	S	130.4	139.0	102.0	101.6	110.0	92.0	104.0	120.0	79.5	125.0	130.0	105.0	140.0	140.0	S
Non-S&E postsecondary teacher	66.0	75.0	59.0	S	S	S	66.0	79.7	56.0	66.0	66.0	63.9	60.0	60.0	S	67.0	75.0	59.0	S	S	S
Non-S&E precollege/other teacher	45.0	44.0	45.0	S	S	S	S	S	S	S	S	S	S	S	S	43.0	44.0	43.0	S	S	S
Sales/marketing occupation	90.0	88.5	90.0	S	S	S	100.0	100.0	S	S	S	S	S	S	S	85.0	85.0	84.0	S	S	S
Social service-related occupation	52.0	52.2	49.0	S	S	S	42.1	S	S	54.0	S	S	S	S	S	54.0	54.0	50.0	S	S	S
Other non-S&E occupation	80.0	80.0	72.0	S	S	S	80.0	80.0	S	90.0	S	S	S	S	S	80.0	88.0	70.0	S	S	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

S&E = science and engineering.

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 66. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and citizenship status: 2003
(Thousands of dollars)

Occupation	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
All occupations	82.0	84.0	81.5	90.0	73.0	80.0	62.0
Science occupations	75.0	75.0	75.0	82.5	68.0	73.0	54.0
Biological, agricultural, and other life scientist	71.0	73.0	72.0	77.0	55.0	66.0	42.0
Agricultural/food scientist	75.0	76.9	76.5	80.0	65.0	74.0	46.5
Biochemist/biophysicist	76.0	79.0	79.0	80.0	50.8	75.3	40.5
Biological scientist	65.7	69.0	68.0	70.0	45.0	53.0	40.0
Forestry/conservation scientist	69.1	70.0	72.0	S	S	S	S
Medical scientist	80.0	83.0	82.0	85.0	60.0	66.0	42.0
Postsecondary teacher, agricultural/other natural sciences	70.0	70.0	70.4	70.0	65.0	S	S
Postsecondary teacher, biological sciences	63.5	64.0	62.7	72.0	60.0	65.0	46.0
Other biological/agricultural/life scientist	68.8	73.0	72.8	77.0	53.0	60.0	40.0
Computer and information scientist	90.0	93.0	92.0	94.0	84.5	88.5	77.9
Computer/information scientist	96.5	100.0	100.0	100.0	85.0	90.0	80.0
Postsecondary teacher, computer science	76.0	76.0	73.5	81.0	72.0	72.0	75.0
Mathematical scientist	75.0	77.0	76.0	80.0	65.0	68.0	60.0
Mathematical scientist	93.0	97.0	100.0	93.0	80.0	87.0	72.0
Postsecondary teacher, mathematics/statistics	62.0	63.6	64.0	62.0	55.0	60.0	48.0
Physical scientist	80.0	83.0	82.0	85.7	66.0	72.3	54.0
Chemist, except biochemist	86.0	90.0	92.0	85.3	74.0	80.0	65.0
Earth/atmospheric/ocean scientist	84.7	87.0	87.0	85.7	60.8	68.0	55.4
Physicist/astronomer	96.0	100.0	98.8	100.0	67.4	100.0	51.3
Postsecondary teacher, chemistry	60.0	61.0	60.0	77.0	47.0	53.0	45.0
Postsecondary teacher, physics	67.5	70.0	67.0	75.0	63.0	63.0	S
Postsecondary teacher, other physical sciences	65.0	65.0	64.0	67.7	70.0	70.0	S
Other physical scientist	82.0	89.0	90.0	89.0	67.0	S	S
Psychologist	70.0	70.0	70.0	73.0	58.0	63.0	47.0
Psychologist	75.0	75.0	75.0	76.5	63.0	65.0	S
Postsecondary teacher, psychology	61.2	61.3	61.0	71.0	50.0	62.0	S
Social scientist	70.0	70.0	69.0	76.0	67.0	65.5	70.0
Economist	108.0	107.0	110.0	98.0	110.0	100.0	140.0
Political scientist	80.0	81.2	90.0	S	S	S	S
Postsecondary teacher, economics	75.0	78.0	78.0	79.3	65.0	65.0	69.0
Postsecondary teacher, political science	60.0	60.0	60.0	69.0	55.0	55.0	S
Postsecondary teacher, sociology	60.0	60.0	60.0	70.2	60.0	66.5	S
Postsecondary teacher, other social sciences	60.0	60.0	60.0	76.0	55.0	57.0	S
Sociologist/anthropologist	68.0	68.0	68.0	S	S	S	S
Other social scientist	70.0	70.0	70.0	69.7	63.0	S	S
Engineering occupations	92.7	95.5	95.0	97.0	82.0	85.0	73.0
Aerospace/aeronautical/astronautical engineer	100.0	100.0	106.7	96.0	82.0	S	S
Chemical engineer	95.0	100.0	98.0	100.0	83.4	85.0	80.0
Civil/architectural/sanitary engineer	81.5	85.0	82.0	92.0	72.0	81.5	63.0
Electrical engineer	103.0	108.0	110.0	107.0	96.0	100.0	85.0
Materials/metallurgical engineer	94.0	100.0	100.0	100.0	75.0	S	S
Mechanical engineer	93.0	98.1	100.0	98.0	78.0	78.0	75.0
Postsecondary teacher, engineering	82.2	84.0	84.0	84.0	70.0	75.0	62.0
Other engineer	88.8	93.0	92.7	93.0	77.0	85.0	70.2
Science and engineering-related occupations	97.0	98.5	97.0	101.6	75.0	76.0	55.0
Health-related occupation, except postsecondary teacher	100.0	100.0	100.0	99.0	50.0	54.0	45.0
Postsecondary teacher, health and related sciences	75.0	76.0	75.0	83.0	62.0	63.0	S
S&E manager	120.0	120.0	120.0	123.0	111.3	115.0	S
S&E precollege teacher	48.0	48.0	48.0	51.0	S	S	S
S&E technician/technologist	80.0	83.0	80.0	85.0	60.0	60.0	S

TABLE 66. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and citizenship status: 2003
(Thousands of dollars)

Occupation	Total	U.S. citizen			Non-U.S. citizen		
		All	Native born	Naturalized	All	Permanent resident	Temporary resident
Other S&E-related occupation	99.0	99.0	87.4	S	S	S	S
Non-science and engineering occupations	100.0	100.0	100.0	108.0	90.0	95.0	70.0
Arts/humanities-related occupation	65.0	65.0	65.0	63.0	S	S	S
Management-related occupation	96.0	98.5	95.0	101.3	83.0	95.0	65.0
Non-S&E manager	124.2	124.0	121.0	135.0	130.0	130.0	111.0
Non-S&E postsecondary teacher	66.0	66.0	66.0	74.0	60.0	60.0	50.0
Non-S&E precollege/other teacher	45.0	45.0	44.0	S	S	S	S
Sales/marketing occupation	90.0	90.0	90.0	98.1	100.0	125.0	S
Social service-related occupation	52.0	52.0	52.0	50.0	S	S	S
Other non-S&E occupation	80.0	80.0	80.0	80.0	S	S	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

S&E = science and engineering.

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 67. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and age: 2003
(Thousands of dollars)

Occupation	Total	Under 35	35–39	40–44	45–49	50–54	55–59	60–64	65–75
All occupations	82.0	60.2	72.0	80.0	84.0	88.4	93.5	95.4	95.0
Science occupations	75.0	55.0	65.0	72.4	75.0	81.1	85.0	87.5	90.0
Biological, agricultural, and other life scientist	71.0	44.0	60.0	70.0	74.0	81.0	86.0	88.0	94.0
Agricultural/food scientist	75.0	55.0	66.5	75.0	80.0	81.0	90.0	80.0	S
Biochemist/biophysicist	76.0	42.0	74.0	80.0	80.0	103.9	90.0	100.0	121.0
Biological scientist	65.7	42.5	52.0	71.6	73.0	80.0	82.7	96.0	95.0
Forestry/conservation scientist	69.1	S	S	S	73.0	64.0	S	S	S
Medical scientist	80.0	45.0	64.5	82.0	85.0	98.0	106.0	101.3	122.4
Postsecondary teacher, agricultural/other natural sciences	70.0	51.0	58.0	65.0	72.0	70.0	80.0	75.0	S
Postsecondary teacher, biological sciences	63.5	45.0	50.5	55.6	62.7	70.0	75.0	85.0	80.0
Other biological/agricultural/life scientist	68.8	44.0	68.8	65.0	85.0	97.0	75.0	S	S
Computer and information scientist	90.0	85.0	85.0	93.0	95.0	100.0	94.0	85.0	89.0
Computer/information scientist	96.5	85.0	95.0	98.0	100.0	104.0	100.0	87.0	82.0
Postsecondary teacher, computer science	76.0	75.0	71.0	75.0	76.0	78.0	80.0	76.0	93.0
Mathematical scientist	75.0	55.0	63.0	72.0	72.0	84.0	86.0	90.0	90.0
Mathematical scientist	93.0	82.0	79.0	92.0	94.8	104.0	100.0	110.0	S
Postsecondary teacher, mathematics/statistics	62.0	48.0	52.0	60.0	60.0	66.7	80.0	84.0	90.0
Physical scientist	80.0	60.0	70.0	80.0	83.0	90.0	95.0	95.0	93.0
Chemist, except biochemist	86.0	72.5	82.5	88.6	94.1	100.0	105.0	100.0	85.0
Earth/atmospheric/ocean scientist	84.7	60.0	63.0	75.0	82.9	100.0	99.0	108.5	110.0
Physicist/astronomer	96.0	56.0	81.6	94.0	102.0	103.4	107.0	121.7	108.3
Postsecondary teacher, chemistry	60.0	46.5	51.0	57.4	65.0	60.0	75.0	80.5	90.0
Postsecondary teacher, physics	67.5	54.7	62.5	65.0	62.5	70.0	78.0	93.0	85.0
Postsecondary teacher, other physical sciences	65.0	49.0	55.0	60.0	63.7	71.5	95.0	88.0	90.0
Other physical scientist	82.0	70.0	60.0	89.0	S	105.0	S	S	S
Psychologist	70.0	52.0	60.0	64.0	72.0	75.0	80.0	80.0	82.0
Psychologist	75.0	55.0	63.0	70.5	75.5	80.0	80.0	80.0	80.0
Postsecondary teacher, psychology	61.2	50.0	52.0	54.0	62.0	63.4	72.0	80.0	87.1
Social scientist	70.0	56.0	59.0	61.4	65.5	74.0	76.0	84.0	93.0
Economist	108.0	93.0	100.0	110.0	120.0	105.0	135.0	123.0	100.0
Political scientist	80.0	S	S	S	S	S	S	S	S
Postsecondary teacher, economics	75.0	70.0	65.0	70.0	71.0	83.3	80.0	88.0	S
Postsecondary teacher, political science	60.0	46.8	49.0	53.0	59.9	80.0	72.0	62.5	90.0
Postsecondary teacher, sociology	60.0	47.0	54.0	56.0	60.0	68.0	65.8	69.0	89.0
Postsecondary teacher, other social sciences	60.0	48.0	50.0	52.0	59.9	65.0	67.0	82.0	100.0
Sociologist/anthropologist	68.0	54.0	53.8	58.0	65.0	68.0	75.0	100.1	S
Other social scientist	70.0	60.8	58.0	66.0	69.0	74.0	79.0	97.0	S
Engineering occupations	92.7	80.0	85.0	90.6	98.0	98.0	105.5	108.0	100.0
Aerospace/aeronautical/astronautical engineer	100.0	81.0	85.0	90.0	112.0	98.0	114.0	134.0	120.1
Chemical engineer	95.0	81.0	86.5	100.0	102.0	104.1	110.5	120.0	94.5
Civil/architectural/sanitary engineer	81.5	61.9	76.0	75.0	110.0	77.0	104.0	91.5	132.0
Electrical engineer	103.0	86.0	100.0	108.0	111.6	124.0	113.2	120.0	108.0
Materials/metallurgical engineer	94.0	S	S	105.0	S	90.0	S	S	S
Mechanical engineer	93.0	81.0	86.0	90.0	95.0	103.0	120.0	112.0	130.0
Postsecondary teacher, engineering	82.2	66.5	72.0	77.3	86.9	85.0	94.4	95.2	95.0
Other engineer	88.8	80.0	80.0	88.0	93.0	100.0	110.0	106.1	106.5
Science and engineering-related occupations	97.0	53.7	80.0	98.0	99.0	100.0	102.0	110.0	100.0
Health-related occupation, except postsecondary teacher	100.0	42.0	83.5	115.0	115.0	102.0	100.0	110.0	100.0
Postsecondary teacher, health and related sciences	75.0	53.0	62.0	71.0	71.0	75.0	85.0	100.0	96.0
S&E manager	120.0	83.0	112.0	113.0	120.0	125.0	120.0	140.0	140.0
S&E precollege teacher	48.0	S	43.0	48.5	45.0	50.0	51.5	55.0	S
S&E technician/technologist	80.0	83.0	72.0	72.0	95.0	S	90.0	85.0	S
Other S&E-related occupation	99.0	S	S	S	S	S	S	S	S

TABLE 67. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and age: 2003
(Thousands of dollars)

Occupation	Total	Under 35	35–39	40–44	45–49	50–54	55–59	60–64	65–75
Non-science and engineering occupations	100.0	75.5	86.1	103.0	99.0	100.0	105.6	110.0	93.0
Arts/humanities-related occupation	65.0	63.0	65.0	56.5	75.0	75.0	75.0	53.0	51.0
Management-related occupation	96.0	90.0	97.3	95.0	96.0	95.0	98.5	100.0	70.0
Non-S&E manager	124.2	100.0	107.0	120.0	118.0	122.3	131.5	135.0	128.0
Non-S&E postsecondary teacher	66.0	52.0	60.0	63.0	61.0	60.0	80.0	70.0	70.0
Non-S&E precollege/other teacher	45.0	S	S	S	47.0	60.8	S	S	S
Sales/marketing occupation	90.0	75.0	84.0	100.0	100.0	101.0	88.5	65.0	75.0
Social service-related occupation	52.0	S	S	54.0	65.0	47.0	52.0	47.0	S
Other non-S&E occupation	80.0	80.0	110.0	120.0	103.0	60.0	52.0	62.5	25.0

S = suppressed due to too few cases (fewer than 200 weighted cases).

S&E = science and engineering.

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 68. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and years since doctorate: 2003
(Thousands of dollars)

Occupation	Total	5 or less	6–10	11–15	16–20	21–25	More than 25
All occupations	82.0	60.0	75.0	83.0	90.0	99.0	101.0
Science occupations	75.0	55.0	70.0	75.0	82.0	88.0	92.9
Biological, agricultural, and other life scientist	71.0	46.5	65.0	75.0	83.3	90.0	94.0
Agricultural/food scientist	75.0	56.0	71.0	75.0	83.5	90.0	87.0
Biochemist/biophysicist	76.0	42.0	75.0	86.6	103.9	102.0	106.1
Biological scientist	65.7	45.0	63.0	80.0	82.9	82.9	96.0
Forestry/conservation scientist	69.1	45.0	S	64.0	85.0	S	S
Medical scientist	80.0	48.0	75.0	90.0	95.0	107.9	120.0
Postsecondary teacher, agricultural/other natural sciences	70.0	53.3	62.0	70.4	76.0	73.8	80.0
Postsecondary teacher, biological sciences	63.5	44.7	50.5	60.0	66.0	75.0	82.0
Other biological/agricultural/life scientist	68.8	50.0	77.0	76.6	91.7	85.0	92.3
Computer and information scientist	90.0	81.0	90.0	96.0	100.0	102.0	94.0
Computer/information scientist	96.5	85.0	95.0	100.0	103.0	105.0	100.0
Postsecondary teacher, computer science	76.0	68.0	80.0	75.0	82.0	91.3	78.0
Mathematical scientist	75.0	58.0	67.7	70.0	76.0	86.0	97.0
Mathematical scientist	93.0	75.0	93.5	93.6	110.0	100.0	110.0
Postsecondary teacher, mathematics/statistics	62.0	50.0	52.5	58.0	65.0	75.0	85.5
Physical scientist	80.0	60.0	73.0	80.0	87.1	100.0	99.5
Chemist, except biochemist	86.0	73.0	85.0	90.1	96.0	100.0	104.0
Earth/atmospheric/ocean scientist	84.7	61.0	75.0	77.0	85.0	110.0	110.0
Physicist/astronomer	96.0	57.0	85.0	93.0	100.0	110.0	115.0
Postsecondary teacher, chemistry	60.0	46.0	51.0	60.0	63.0	65.0	80.9
Postsecondary teacher, physics	67.5	50.0	61.7	62.5	66.0	75.0	85.0
Postsecondary teacher, other physical sciences	65.0	50.0	58.7	63.7	70.0	81.5	95.0
Other physical scientist	82.0	70.0	67.0	117.0	S	105.0	121.3
Psychologist	70.0	54.0	60.0	70.0	79.2	80.0	85.0
Psychologist	75.0	57.0	67.8	76.5	81.0	85.0	90.0
Postsecondary teacher, psychology	61.2	45.0	52.0	60.0	62.0	66.0	81.0
Social scientist	70.0	53.3	60.0	69.0	73.0	80.0	90.0
Economist	108.0	84.0	108.0	115.0	124.0	130.0	135.0
Political scientist	80.0	72.0	75.0	S	S	S	112.0
Postsecondary teacher, economics	75.0	65.0	65.8	67.9	83.0	80.0	90.0
Postsecondary teacher, political science	60.0	45.0	55.0	55.0	68.0	69.0	87.0
Postsecondary teacher, sociology	60.0	47.5	55.0	56.5	62.0	67.0	76.0
Postsecondary teacher, other social sciences	60.0	48.0	52.0	65.0	65.0	74.0	83.4
Sociologist/anthropologist	68.0	55.0	60.0	75.0	68.0	85.0	88.0
Other social scientist	70.0	58.0	65.0	76.1	77.0	80.0	118.4
Engineering occupations	92.7	78.7	87.5	96.0	100.0	103.1	110.0
Aerospace/aeronautical/astronautical engineer	100.0	80.0	92.0	100.0	98.0	100.0	120.0
Chemical engineer	95.0	80.0	90.0	104.0	100.0	107.0	113.0
Civil/architectural/sanitary engineer	81.5	63.5	81.5	91.1	100.0	85.0	104.9
Electrical engineer	103.0	93.0	102.0	112.0	123.0	110.0	120.0
Materials/metallurgical engineer	94.0	S	100.0	110.0	75.0	S	100.0
Mechanical engineer	93.0	80.0	92.0	95.0	105.0	103.0	120.0
Postsecondary teacher, engineering	82.2	65.0	72.0	81.3	90.0	100.0	98.0
Other engineer	88.8	77.0	85.0	92.0	100.0	102.0	115.0
Science and engineering-related occupations	97.0	60.0	80.0	91.0	110.0	116.0	120.0
Health-related occupation, except postsecondary teacher	100.0	48.0	85.0	100.0	140.0	150.0	120.0
Postsecondary teacher, health and related sciences	75.0	55.0	62.0	75.0	85.4	98.5	110.0
S&E manager	120.0	82.0	105.0	116.0	120.0	131.0	132.0
S&E precollege teacher	48.0	42.0	45.0	52.0	48.0	53.0	49.0
S&E technician/technologist	80.0	72.0	78.0	91.0	S	S	85.0

TABLE 68. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and years since doctorate: 2003
(Thousands of dollars)

Occupation	Total	5 or less	6–10	11–15	16–20	21–25	More than 25
Other S&E-related occupation	99.0	S	S	S	S	S	S
Non-science and engineering occupations	100.0	66.0	85.0	96.6	100.0	112.0	120.0
Arts/humanities-related occupation	65.0	55.0	66.0	75.0	65.1	75.0	55.0
Management-related occupation	96.0	81.0	100.0	95.0	96.0	100.0	100.6
Non-S&E manager	124.2	85.0	105.0	112.8	119.0	135.0	140.0
Non-S&E postsecondary teacher	66.0	52.0	60.0	65.0	75.0	72.8	85.0
Non-S&E precollege/other teacher	45.0	50.0	45.0	43.3	48.0	S	S
Sales/marketing occupation	90.0	74.0	90.0	90.0	100.0	100.0	85.0
Social service-related occupation	52.0	50.0	54.0	60.0	53.0	42.0	50.0
Other non-S&E occupation	80.0	80.0	79.0	85.0	103.0	100.3	67.7

S = suppressed due to too few cases (fewer than 200 weighted cases).

S&E = science and engineering.

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 69. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and sector of employment: 2003
(Thousands of dollars)

Occupation	Total	Universities and 4-year colleges	Other educational institutions	Private-for-profit	Private not-for-profit	Federal government	State, local government	Self-employed	Other
All occupations	82.0	70.0	58.0	100.0	80.0	91.0	68.0	90.0	112.0
Science occupations	75.0	64.1	60.0	94.0	75.0	87.0	65.0	95.0	110.0
Biological, agricultural, and other life scientist	71.0	62.0	50.0	90.0	69.0	80.0	62.2	83.0	72.0
Agricultural/food scientist	75.0	70.0	S	82.0	70.0	76.0	S	80.0	S
Biochemist/biophysicist	76.0	50.0	S	88.0	85.0	95.0	S	S	S
Biological scientist	65.7	51.0	S	84.0	53.0	74.0	59.5	63.0	S
Forestry/conservation scientist	69.1	70.0	S	S	S	81.0	S	S	S
Medical scientist	80.0	64.5	S	100.0	70.0	88.4	67.0	110.0	S
Postsecondary teacher, agricultural/other natural sciences	70.0	70.0	S	S	S	S	S	S	S
Postsecondary teacher, biological sciences	63.5	64.5	49.0	S	S	S	S	S	S
Other biological/agricultural/life scientist	68.8	47.0	S	85.0	75.0	72.8	S	S	S
Computer and information scientist	90.0	76.0	S	100.0	96.0	103.0	72.0	75.0	S
Computer/information scientist	96.5	75.0	S	100.0	96.0	103.0	72.0	78.0	S
Postsecondary teacher, computer science	76.0	76.0	S	S	S	S	S	S	S
Mathematical scientist	75.0	63.0	60.0	100.0	93.0	97.0	57.0	95.0	S
Mathematical scientist	93.0	68.5	S	100.0	93.0	97.0	57.0	95.0	S
Postsecondary teacher, mathematics/statistics	62.0	62.4	60.0	S	S	S	S	S	S
Physical scientist	80.0	65.0	57.0	92.0	86.0	95.0	68.0	100.0	91.8
Chemist, except biochemist	86.0	60.0	S	90.0	80.0	84.0	66.0	86.0	S
Earth/atmospheric/ocean scientist	84.7	65.0	S	94.0	85.0	98.8	61.3	80.0	S
Physicist/astronomer	96.0	70.0	S	104.0	96.0	100.0	110.0	S	100.0
Postsecondary teacher, chemistry	60.0	60.0	55.0	S	S	S	S	S	S
Postsecondary teacher, physics	67.5	70.0	58.0	S	S	S	S	S	S
Postsecondary teacher, other physical sciences	65.0	65.0	S	S	S	S	S	S	S
Other physical scientist	82.0	50.0	S	101.5	S	95.0	S	S	S
Psychologist	70.0	62.0	66.0	80.0	63.5	85.0	67.0	97.0	S
Psychologist	75.0	63.0	68.0	80.0	64.0	85.0	68.0	97.0	S
Postsecondary teacher, psychology	61.2	61.0	60.0	S	S	S	S	S	S
Social scientist	70.0	65.0	58.0	105.0	75.0	87.3	64.0	110.0	153.0
Economist	108.0	89.0	S	130.0	100.7	97.0	74.8	S	155.0
Political scientist	80.0	72.0	S	S	S	S	S	S	S
Postsecondary teacher, economics	75.0	76.0	65.0	S	S	S	S	S	S
Postsecondary teacher, political science	60.0	60.0	52.0	S	S	S	S	S	S
Postsecondary teacher, sociology	60.0	60.0	S	S	S	S	S	S	S
Postsecondary teacher, other social sciences	60.0	60.0	54.0	S	S	S	S	S	S
Sociologist/anthropologist	68.0	65.0	S	72.0	68.0	72.0	60.0	S	S
Other social scientist	70.0	61.5	S	74.0	69.0	85.0	63.5	S	S
Engineering occupations	92.7	82.0	60.0	98.0	102.0	92.0	71.0	130.0	104.0

TABLE 69. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and sector of employment: 2003
(Thousands of dollars)

Occupation	Total	Universities and 4-year colleges	Other educational institutions	Private-for-profit	Private not-for-profit	Federal government	State, local government	Self-employed	Other
Aerospace/aeronautical/astronautical engineer	100.0	S	S	103.0	105.0	88.0	S	S	S
Chemical engineer	95.0	85.5	S	95.0	113.0	102.0	S	S	S
Civil/architectural/sanitary engineer	81.5	80.0	S	82.0	S	91.5	65.0	150.0	S
Electrical engineer	103.0	100.0	S	102.6	114.0	103.0	S	100.0	S
Materials/metallurgical engineer	94.0	S	S	95.0	S	S	S	S	S
Mechanical engineer	93.0	79.7	S	93.0	S	100.0	S	S	S
Postsecondary teacher, engineering	82.2	82.2	S	S	S	S	S	S	S
Other engineer	88.8	72.0	S	92.2	80.0	90.0	55.0	140.0	S
Science and engineering-related occupations	97.0	78.0	50.0	124.0	95.0	105.0	74.0	105.0	117.0
Health-related occupation, except postsecondary teacher	100.0	71.0	S	130.0	87.0	94.0	60.0	120.0	S
Postsecondary teacher, health and related sciences	75.0	75.0	S	S	S	S	S	S	S
S&E manager	120.0	110.0	S	126.0	100.0	114.0	76.0	105.0	S
S&E precollege teacher	48.0	S	48.0	S	S	S	S	S	S
S&E technician/technologist	80.0	50.0	S	85.0	76.0	S	S	S	S
Other S&E-related occupation	99.0	S	S	106.0	S	S	S	S	S
Non-science and engineering occupations	100.0	87.0	67.0	122.0	82.0	110.0	70.0	70.0	145.0
Arts/humanities-related occupation	65.0	40.0	S	75.0	55.0	S	S	55.0	S
Management-related occupation	96.0	68.0	S	102.0	72.0	97.6	57.0	108.0	93.0
Non-S&E manager	124.2	110.3	80.0	145.0	100.0	125.0	85.0	130.0	200.0
Non-S&E postsecondary teacher	66.0	66.0	43.0	S	S	S	S	S	S
Non-S&E precollege/other teacher	45.0	S	48.0	S	S	S	S	S	S
Sales/marketing occupation	90.0	S	S	98.1	S	S	S	60.0	S
Social service-related occupation	52.0	45.0	60.0	60.0	49.0	S	60.0	S	S
Other non-S&E occupation	80.0	40.0	S	120.0	87.0	70.0	65.0	50.0	S

S = suppressed due to too few cases (fewer than 200 weighted cases).
S&E = science and engineering.

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 70. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and sex: 2003
(Thousands of dollars)

Employment sector and occupation	Total	Male	Female
All sectors	82.0	86.5	70.0
Science occupations	75.0	80.0	65.0
Biological, agricultural, and other life scientist	71.0	75.0	63.0
Computer and information scientist	90.0	91.8	80.0
Mathematical scientist	75.0	77.0	64.0
Physical scientist	80.0	83.1	70.0
Psychologist	70.0	76.0	62.4
Social scientist	70.0	72.0	62.3
Engineering occupations	92.7	94.0	85.0
Science and engineering-related occupations	97.0	108.0	73.5
Non-science and engineering occupations	100.0	107.0	80.0
University and 4-year colleges	70.0	73.0	60.0
Science occupations	64.1	68.0	57.0
Biological, agricultural, and other life scientist	62.0	67.0	54.0
Computer and information scientist	76.0	77.0	72.0
Mathematical scientist	63.0	66.0	59.0
Physical scientist	65.0	67.0	55.0
Psychologist	62.0	68.0	59.0
Social scientist	65.0	69.0	59.0
Engineering occupations	82.0	83.0	72.0
Science and engineering-related occupations	78.0	90.5	68.8
Non-science and engineering occupations	87.0	97.8	72.0
Other educational institutions	58.0	59.0	56.0
Science occupations	60.0	60.0	58.0
Biological, agricultural, and other life scientist	50.0	52.0	46.0
Computer and information scientist	S	S	S
Mathematical scientist	60.0	60.0	S
Physical scientist	57.0	57.0	60.0
Psychologist	66.0	70.0	62.0
Social scientist	58.0	61.6	57.0
Engineering occupations	60.0	S	S
Science and engineering-related occupations	50.0	48.0	50.0
Non-science and engineering occupations	67.0	70.0	61.0
Private-for-profit	100.0	102.0	90.0
Science occupations	94.0	98.0	84.0
Biological, agricultural, and other life scientist	90.0	95.0	84.9
Computer and information scientist	100.0	100.0	91.0
Mathematical scientist	100.0	105.0	94.0
Physical scientist	92.0	95.0	84.4
Psychologist	80.0	89.0	65.0
Social scientist	105.0	112.0	80.0
Engineering occupations	98.0	98.5	92.0
Science and engineering-related occupations	124.0	125.0	105.0
Non-science and engineering occupations	122.0	126.0	103.0
Private not-for-profit	80.0	85.0	70.0
Science occupations	75.0	81.0	64.0
Biological, agricultural, and other life scientist	69.0	74.5	55.8
Computer and information scientist	96.0	96.0	S
Mathematical scientist	93.0	102.0	S
Physical scientist	86.0	89.0	80.0
Psychologist	63.5	70.0	61.0
Social scientist	75.0	97.2	70.0
Engineering occupations	102.0	102.0	S
Science and engineering-related occupations	95.0	110.0	80.0

TABLE 70. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and sex: 2003
(Thousands of dollars)

Employment sector and occupation	Total	Male	Female
Non-science and engineering occupations	82.0	79.0	85.0
Federal government	91.0	95.0	83.0
Science occupations	87.0	90.0	79.0
Biological, agricultural, and other life scientist	80.0	82.9	73.5
Computer and information scientist	103.0	105.0	S
Mathematical scientist	97.0	100.6	85.0
Physical scientist	95.0	100.0	80.0
Psychologist	85.0	85.0	83.5
Social scientist	87.3	87.3	85.0
Engineering occupations	92.0	93.0	79.1
Science and engineering-related occupations	105.0	110.0	85.0
Non-science and engineering occupations	110.0	115.0	104.0
State and local government	68.0	70.0	65.0
Science occupations	65.0	66.0	65.0
Biological, agricultural, and other life scientist	62.2	62.0	65.0
Computer and information scientist	72.0	60.0	S
Mathematical scientist	57.0	S	S
Physical scientist	68.0	70.0	65.0
Psychologist	67.0	69.2	63.2
Social scientist	64.0	64.0	65.0
Engineering occupations	71.0	71.0	S
Science and engineering-related occupations	74.0	80.0	65.0
Non-science and engineering occupations	70.0	73.0	67.0
Self-employed	90.0	100.0	80.0
Science occupations	95.0	100.0	83.0
Biological, agricultural, and other life scientist	83.0	80.0	110.0
Computer and information scientist	75.0	75.0	S
Mathematical scientist	95.0	65.0	S
Physical scientist	100.0	100.0	S
Psychologist	97.0	110.0	80.0
Social scientist	110.0	135.0	S
Engineering occupations	130.0	130.0	S
Science and engineering-related occupations	105.0	105.0	85.0
Non-science and engineering occupations	70.0	75.0	52.0
Other	112.0	124.7	85.0
Science occupations	110.0	120.0	85.0
Biological, agricultural, and other life scientist	72.0	S	S
Computer and information scientist	S	S	S
Mathematical scientist	S	S	S
Physical scientist	91.8	100.0	0.0
Psychologist	S	S	S
Social scientist	153.0	160.0	140.0
Engineering occupations	104.0	104.0	S
Science and engineering-related occupations	117.0	S	S
Non-science and engineering occupations	145.0	150.0	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 71. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2003 (corrected January 2011)
(Thousands of dollars)

Employment sector and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
All sectors	82.0	66.6	84.5	70.0	72.0	82.5	75.0
Science occupations	75.0	66.6	76.7	64.0	65.0	75.0	70.0
Biological, agricultural, and other life scientist	71.0	S	70.0	60.0	62.0	72.0	66.8
Computer and information scientist	90.0	S	88.0	68.0	76.0	93.0	98.0
Mathematical scientist	75.0	S	70.0	71.0	65.0	76.0	S
Physical scientist	80.0	S	80.0	72.0	72.0	82.0	80.0
Psychologist	70.0	S	63.0	67.0	62.0	70.0	68.0
Social scientist	70.0	S	70.0	61.5	61.2	70.0	63.0
Engineering occupations	92.7	S	90.0	80.0	87.0	95.0	94.0
Science and engineering-related occupations	97.0	S	100.0	75.0	91.0	98.0	99.0
Non-science and engineering occupations	100.0	S	102.0	80.0	85.0	100.0	120.0
University and 4-year colleges	70.0	59.0	65.0	64.6	62.0	70.0	65.0
Science occupations	64.1	62.5	60.0	59.2	60.0	65.0	64.0
Biological, agricultural, and other life scientist	62.0	S	51.0	55.0	60.0	65.0	60.0
Computer and information scientist	76.0	S	76.0	S	70.0	76.0	S
Mathematical scientist	63.0	S	60.0	57.0	63.0	64.0	S
Physical scientist	65.0	S	60.0	52.0	67.1	65.0	65.0
Psychologist	62.0	S	62.0	58.0	55.4	62.0	68.0
Social scientist	65.0	S	65.0	60.0	58.0	66.0	59.0
Engineering occupations	82.0	S	77.0	72.0	80.0	84.0	100.0
Science and engineering-related occupations	78.0	S	65.0	74.0	75.0	80.0	72.0
Non-science and engineering occupations	87.0	S	80.0	75.0	70.0	90.0	S
Other educational institutions	58.0	S	55.0	56.0	61.1	57.0	S
Science occupations	60.0	S	54.4	50.0	61.8	60.0	S
Biological, agricultural, and other life scientist	50.0	S	S	S	S	51.0	S
Computer and information scientist	S	S	S	S	S	S	S
Mathematical scientist	60.0	S	S	S	S	63.0	S
Physical scientist	57.0	S	S	S	S	55.5	S
Psychologist	66.0	S	S	S	S	65.0	S
Social scientist	58.0	S	S	S	S	60.0	S
Engineering occupations	60.0	S	S	S	S	S	S
Science and engineering-related occupations	50.0	S	S	S	S	48.5	S
Non-science and engineering occupations	67.0	S	S	61.0	S	70.0	S
Private-for-profit	100.0	90.0	95.0	95.0	100.0	104.0	100.0
Science occupations	94.0	S	88.0	86.0	83.0	98.0	86.0
Biological, agricultural, and other life scientist	90.0	S	85.0	89.0	80.0	93.0	80.0
Computer and information scientist	100.0	S	94.0	55.6	83.9	103.0	105.0
Mathematical scientist	100.0	S	89.2	S	S	110.0	S
Physical scientist	92.0	S	85.0	82.0	78.8	97.0	S
Psychologist	80.0	S	S	100.0	74.0	80.0	S
Social scientist	105.0	S	100.0	S	S	112.0	S
Engineering occupations	98.0	S	95.0	95.0	94.0	100.0	98.0
Science and engineering-related occupations	124.0	S	120.0	115.0	132.4	125.0	106.0
Non-science and engineering occupations	122.0	S	116.0	103.0	120.0	125.0	140.0
Private not-for-profit	80.0	S	75.0	70.0	78.0	80.6	73.0
Science occupations	75.0	S	71.0	70.0	74.0	78.0	70.0
Biological, agricultural, and other life scientist	69.0	S	73.0	S	S	66.0	S
Computer and information scientist	96.0	S	S	S	S	96.5	S
Mathematical scientist	93.0	S	S	S	S	101.0	S
Physical scientist	86.0	S	70.5	S	S	95.0	S
Psychologist	63.5	S	57.7	S	S	64.0	S

TABLE 71. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2003 (corrected January 2011)

(Thousands of dollars)

Employment sector and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Social scientist	75.0	S	71.0	S	S	74.0	S
Engineering occupations	102.0	S	100.0	S	S	104.0	S
Science and engineering-related occupations	95.0	S	62.0	S	S	96.0	S
Non-science and engineering occupations	82.0	S	75.0	54.0	S	83.0	S
Federal government	91.0	S	87.0	80.0	79.1	94.1	78.0
Science occupations	87.0	S	85.0	73.5	79.0	89.0	75.0
Biological, agricultural, and other life scientist	80.0	S	80.0	77.0	67.0	80.0	S
Computer and information scientist	103.0	S	108.8	S	S	103.0	S
Mathematical scientist	97.0	S	89.0	S	S	100.0	S
Physical scientist	95.0	S	89.0	S	83.0	97.0	S
Psychologist	85.0	S	S	S	S	85.0	S
Social scientist	87.3	S	83.0	S	S	90.0	S
Engineering occupations	92.0	S	90.0	S	S	95.0	S
Science and engineering-related occupations	105.0	S	98.0	S	S	105.0	S
Non-science and engineering occupations	110.0	S	105.1	88.0	S	112.8	S
State and local government	68.0	S	65.0	65.0	70.0	68.0	65.0
Science occupations	65.0	S	62.0	63.2	63.0	65.0	S
Biological, agricultural, and other life scientist	62.2	S	S	S	S	62.4	S
Computer and information scientist	72.0	S	S	S	S	60.0	S
Mathematical scientist	57.0	S	S	S	S	S	S
Physical scientist	68.0	S	S	S	S	70.2	S
Psychologist	67.0	S	S	S	S	67.0	S
Social scientist	64.0	S	S	S	S	65.0	S
Engineering occupations	71.0	S	70.0	S	S	72.0	S
Science and engineering-related occupations	74.0	S	70.0	S	S	75.0	S
Non-science and engineering occupations	70.0	S	72.0	S	S	71.0	S
Self-employed	90.0	S	86.0	80.0	90.0	93.0	100.0
Science occupations	95.0	S	78.0	S	S	97.0	S
Biological, agricultural, and other life scientist	83.0	S	S	S	S	85.0	S
Computer and information scientist	75.0	S	S	S	S	75.0	S
Mathematical scientist	95.0	S	S	S	S	80.0	S
Physical scientist	100.0	S	S	S	S	100.0	S
Psychologist	97.0	S	S	S	S	99.0	S
Social scientist	110.0	S	S	S	S	120.0	S
Engineering occupations	130.0	S	S	S	S	140.0	S
Science and engineering-related occupations	105.0	S	105.0	S	S	110.0	S
Non-science and engineering occupations	70.0	S	100.0	S	S	70.0	S
Other	112.0	S	140.0	S	S	117.9	S
Science occupations	110.0	S	140.0	S	S	110.0	S
Biological, agricultural, and other life scientist	72.0	S	S	S	S	S	S
Computer and information scientist	S	S	S	S	S	S	S
Mathematical scientist	S	S	S	S	S	S	S

TABLE 71. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2003 (corrected January 2011)
(Thousands of dollars)

Employment sector and occupation	Total	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other race[a]
Physical scientist	91.8	S	S	S	S	100.0	S
Psychologist	S	S	S	S	S	S	S
Social scientist	153.0	S	S	S	S	160.0	S
Engineering occupations	104.0	S	S	S	S	S	S
Science and engineering-related occupations	117.0	S	S	S	S	85.0	S
Non-science and engineering occupations	145.0	S	83.0	S	S	189.0	S

S = suppressed due to too few cases (fewer than 200 weighted cases).

[a] Includes non-Hispanic Native Hawaiians/Other Pacific Islanders and non-Hispanic respondents reporting 2 or more races.

NOTES: Race/ethnicity data are for all doctorate recipients, including temporary residents. Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 72. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and primary or secondary work activities: 2003
(Thousands of dollars)

Occupation	Total	Computer applications	Management, sales, administration	Professional services	R&D [a]	Teaching	Other
All occupations	82.0	86.5	101.0	81.0	85.0	61.0	76.5
Science occupations	75.0	85.0	85.0	75.0	80.0	60.0	71.9
Biological, agricultural, and other life scientist	71.0	54.0	85.0	80.0	73.0	56.0	63.0
Agricultural/food scientist	75.0	S	79.0	70.0	75.0	S	65.0
Biochemist/biophysicist	76.0	S	89.0	100.0	73.0	S	70.0
Biological scientist	65.7	S	78.0	66.0	62.0	S	59.8
Forestry/conservation scientist	69.1	S	88.2	S	70.0	S	S
Medical scientist	80.0	48.6	96.0	95.0	78.0	S	74.0
Postsecondary teacher, agricultural/other natural sciences	70.0	S	70.0	S	78.7	65.0	S
Postsecondary teacher, biological sciences	63.5	S	75.0	56.0	80.0	55.0	51.0
Other biological/agricultural/life scientist	68.8	S	75.5	65.0	65.0	S	73.5
Computer and information scientist	90.0	87.5	100.0	85.0	103.0	70.0	83.0
Computer/information scientist	96.5	87.5	100.0	80.0	105.0	S	90.0
Postsecondary teacher, computer science	76.0	85.0	120.0	S	90.0	70.0	71.0
Mathematical scientist	75.0	85.0	91.5	87.0	86.0	60.0	53.0
Mathematical scientist	93.0	85.0	100.0	100.0	94.8	63.0	100.0
Postsecondary teacher, mathematics/statistics	62.0	S	80.0	70.0	71.2	60.0	48.0
Physical scientist	80.0	85.0	90.0	89.2	87.0	60.0	80.0
Chemist, except biochemist	86.0	78.0	89.0	85.0	87.0	S	82.0
Earth/atmospheric/ocean scientist	84.7	85.0	90.0	82.0	85.0	S	87.0
Physicist/astronomer	96.0	85.0	103.0	112.0	94.0	80.0	91.0
Postsecondary teacher, chemistry	60.0	S	80.5	S	85.0	55.4	55.0
Postsecondary teacher, physics	67.5	S	86.0	S	80.0	62.0	47.4
Postsecondary teacher, other physical sciences	65.0	S	0.0	S	73.0	60.0	S
Other physical scientist	82.0	S	76.0	S	84.0	S	111.0
Psychologist	70.0	S	72.0	73.5	72.0	60.0	70.0
Psychologist	75.0	S	71.5	75.0	70.3	84.7	79.0
Postsecondary teacher, psychology	61.2	S	81.5	63.0	73.0	59.0	65.0
Social scientist	70.0	63.0	84.3	82.0	77.3	60.0	67.9
Economist	108.0	S	130.0	160.0	100.7	S	125.0
Political scientist	80.0	S	75.0	90.0	84.0	S	S
Postsecondary teacher, economics	75.0	S	90.0	S	88.0	71.3	60.0
Postsecondary teacher, political science	60.0	S	101.0	S	65.0	55.0	50.0
Postsecondary teacher, sociology	60.0	S	65.0	S	60.0	60.0	45.0
Postsecondary teacher, other social sciences	60.0	S	76.0	61.0	63.1	58.0	64.0
Sociologist/anthropologist	68.0	S	70.0	68.0	68.0	S	65.0
Other social scientist	70.0	S	75.0	67.5	71.5	S	69.5
Engineering occupations	92.7	95.0	100.0	97.0	95.0	76.0	90.0
Aerospace/aeronautical/astronautical engineer	100.0	107.1	105.0	S	95.5	S	S
Chemical engineer	95.0	95.0	100.0	S	95.0	S	91.0
Civil/architectural/sanitary engineer	81.5	S	91.5	100.0	80.0	S	S
Electrical engineer	103.0	104.0	112.0	S	103.0	S	100.0
Materials/metallurgical engineer	94.0	S	94.0	S	102.0	S	78.5
Mechanical engineer	93.0	95.0	108.0	97.0	90.0	S	105.0
Postsecondary teacher, engineering	82.2	S	100.0	S	90.0	76.0	74.4
Other engineer	88.8	85.0	95.0	94.0	87.0	S	84.6
Science and engineering-related occupations	97.0	85.0	114.0	100.0	99.0	60.0	82.0
Health-related occupation, except postsecondary teacher	100.0	S	85.0	100.0	88.0	80.0	70.0
Postsecondary teacher, health and related sciences	75.0	S	81.0	85.5	85.0	67.0	56.5
S&E manager	120.0	115.0	120.0	100.0	124.3	S	120.0
S&E precollege teacher	48.0	S	S	S	S	48.0	S
S&E technician/technologist	80.0	76.0	100.7	S	80.0	S	72.0

TABLE 72. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and primary or secondary work activities: 2003
(Thousands of dollars)

Occupation	Total	Computer applications	Management, sales, administration	Professional services	R&D [a]	Teaching	Other
Other S&E-related occupation	99.0	S	S	S	S	S	S
Non-science and engineering occupations	100.0	92.0	110.0	90.0	106.0	59.7	80.0
Arts/humanities-related occupation	65.0	S	61.0	66.0	75.0	S	45.0
Management-related occupation	96.0	86.0	90.0	105.0	102.0	S	98.5
Non-S&E manager	124.2	119.0	125.0	105.0	126.0	90.0	110.0
Non-S&E postsecondary teacher	66.0	S	75.0	62.5	80.0	62.0	50.0
Non-S&E precollege/other teacher	45.0	S	44.0	44.0	S	46.0	S
Sales/marketing occupation	90.0	S	90.0	85.0	104.0	S	80.0
Social service-related occupation	52.0	S	52.2	52.0	S	54.0	40.0
Other non-S&E occupation	80.0	S	36.0	125.0	70.0	S	35.0

S = suppressed due to too few cases (fewer than 200 weighted cases).

S&E = science and engineering.

[a] R&D includes applied or basic research, design, and development.

NOTES: Salaries are rounded to nearest 100. If respondent reported more than one category of activity as the primary and secondary work activity, respondent's salary appears in both categories.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.

TABLE 73. Median annual salaries of full-time employed doctoral scientists and engineers, by employer location and broad occupation: 2003
(Thousands of dollars)

Employer location	Total	Science occupations							Engineering occupations	S&E-related occupations	Non-S&E occupations
		All	Biological, agricultural, and other life scientist	Computer and information scientist	Mathematical scientist	Physical scientist	Psychologist	Social scientist			
All locations	82.0	75.0	71.0	90.0	75.0	80.0	70.0	70.0	92.7	97.0	100.0
New England	85.0	78.0	74.0	90.0	80.0	87.0	73.4	76.0	95.0	92.0	105.0
Connecticut	90.0	85.0	97.0	72.0	S	95.0	72.0	80.0	86.0	114.0	125.0
Maine	67.0	64.3	64.3	S	S	69.4	70.0	60.0	S	S	75.0
Massachusetts	86.0	80.0	72.0	93.8	80.0	87.0	79.2	80.0	97.5	100.0	120.0
New Hampshire	67.0	63.0	50.0	116.0	S	63.0	60.0	S	100.0	S	86.0
Rhode Island	78.0	74.0	80.0	S	S	95.0	73.0	60.0	91.0	80.0	70.0
Vermont	70.0	63.0	S	S	S	S	S	59.9	115.0	S	88.9
Middle Atlantic	87.0	80.0	76.0	96.0	85.0	82.3	77.5	72.4	96.0	102.0	110.0
New Jersey	100.0	93.0	93.0	104.0	103.0	90.0	88.1	83.0	100.0	114.0	120.0
New York	85.0	80.0	72.5	98.0	80.0	84.0	73.0	70.0	93.0	102.0	112.0
Pennsylvania	80.0	73.0	70.0	82.0	78.0	75.0	70.0	72.4	100.0	97.0	94.0
East North Central	78.0	70.8	70.0	80.0	74.0	77.0	65.0	65.5	87.0	85.0	90.0
Illinois	80.0	75.0	72.0	95.0	88.0	78.0	67.5	66.3	89.0	80.0	90.0
Indiana	75.0	70.0	73.0	75.0	66.0	72.0	75.0	63.5	80.0	90.0	90.0
Michigan	83.0	73.0	75.0	75.0	67.5	80.0	65.0	70.0	90.0	105.0	117.0
Ohio	76.0	71.0	70.0	72.0	85.0	76.0	68.0	62.0	87.5	82.0	81.0
Wisconsin	70.0	60.1	56.0	72.5	52.0	70.0	60.1	54.0	84.0	81.0	80.2
West North Central	71.4	65.0	69.0	82.0	65.0	67.5	62.0	61.0	83.0	78.0	80.0
Iowa	72.0	70.0	80.0	S	68.0	67.0	65.0	72.0	75.0	72.0	77.0
Kansas	65.0	60.0	56.0	S	S	55.0	74.0	64.0	79.9	85.0	68.0
Minnesota	75.0	69.0	69.1	73.0	105.0	78.0	62.0	57.2	93.0	80.3	80.0
Missouri	70.0	60.7	61.0	0.0	60.0	64.0	53.0	63.0	89.0	75.0	85.0
Nebraska	66.8	66.8	68.0	S	S	S	S	S	S	S	S
North Dakota	72.4	66.0	75.0	S	S	60.0	63.0	63.0	S	80.0	65.4
South Dakota	65.0	60.0	69.0	S	S	S	S	S	S	S	S
South Atlantic	83.0	75.0	73.5	90.0	80.0	80.0	67.8	73.0	90.0	92.0	100.0
Delaware	100.0	97.8	93.0	S	S	97.8	S	S	110.0	96.0	110.0
District of Columbia	104.0	100.0	77.3	89.0	71.0	100.0	80.0	105.0	98.9	105.0	120.0
Florida	70.0	65.0	70.0	76.0	55.0	68.0	63.0	54.5	78.0	78.0	85.0
Georgia	73.0	66.8	67.0	85.0	66.0	69.0	66.8	58.0	90.0	86.0	96.0
Maryland	88.0	82.0	80.0	98.0	100.0	89.0	66.0	66.0	95.0	100.0	100.0
North Carolina	76.8	72.0	72.0	94.0	62.0	75.0	69.0	58.0	85.2	90.0	90.0
South Carolina	70.0	66.0	70.0	S	68.0	70.0	60.0	55.4	76.0	77.1	73.0
Virginia	85.2	79.0	72.0	100.0	99.0	80.0	65.0	70.0	96.0	94.0	108.0
West Virginia	76.0	70.0	74.0	S	S	88.0	S	43.8	78.0	71.0	S
East South Central	74.0	68.0	64.6	80.0	64.0	70.0	75.0	62.0	82.5	81.5	92.4
Alabama	75.0	66.6	65.0	80.0	S	72.5	65.0	60.0	85.0	89.0	100.0
Kentucky	70.0	65.0	60.6	S	64.0	55.0	79.7	57.0	75.0	70.0	84.0
Mississippi	72.0	68.0	61.6	S	S	75.0	S	70.0	78.0	70.0	110.0
Tennessee	80.0	68.0	63.0	81.0	62.0	72.8	80.0	71.0	84.0	90.2	75.0
West South Central	80.0	70.4	68.0	78.0	60.0	83.0	65.0	64.0	94.0	97.5	85.0
Arkansas	65.0	61.2	62.0	S	S	65.0	S	60.0	S	83.7	90.0
Louisiana	72.0	68.0	70.0	S	50.0	85.0	62.0	55.0	109.0	74.0	66.0
Oklahoma	70.0	62.0	68.0	80.0	S	71.0	58.6	50.0	69.0	82.0	85.0
Texas	83.0	75.0	70.0	78.0	66.7	85.0	70.0	69.0	94.0	100.0	89.9
Mountain	76.0	70.0	63.6	80.0	64.1	82.0	63.1	62.0	95.0	94.0	89.0
Arizona	73.5	66.0	60.0	81.0	S	71.0	67.0	56.0	90.0	75.0	70.6
Colorado	75.0	72.0	65.0	86.0	62.0	84.7	70.0	62.0	84.0	83.5	100.0

TABLE 73. Median annual salaries of full-time employed doctoral scientists and engineers, by employer location and broad occupation: 2003
(Thousands of dollars)

Employer location	Total	Science occupations									
		All	Biological, agricultural, and other life scientist	Computer and information scientist	Mathematical scientist	Physical scientist	Psychologist	Social scientist	Engineering occupations	S&E-related occupations	Non-S&E occupations
Idaho	70.0	53.5	50.3	S	S	63.0	S	S	93.0	95.0	95.0
Montana	60.0	55.0	58.0	S	S	60.0	S	S	S	S	S
New Mexico	95.4	78.0	72.0	85.0	S	100.0	63.0	60.0	103.0	110.1	103.0
Nevada	87.0	75.3	70.0	S	S	78.0	S	S	105.0	S	100.0
Utah	73.0	67.6	65.0	S	S	72.5	60.0	70.0	98.0	61.0	90.0
Wyoming	70.0	70.0	S	S	S	S	S	S	S	S	S
Pacific	90.0	80.0	73.0	100.0	74.0	85.0	72.0	75.0	100.0	120.0	110.0
Alaska	66.6	65.0	59.5	S	S	S	S	S	S	S	S
California	98.0	85.0	79.0	105.0	76.0	91.0	75.0	80.4	100.0	125.0	120.0
Hawaii	72.0	70.0	70.0	S	S	80.0	S	68.0	S	99.0	75.0
Oregon	76.7	70.0	72.0	85.0	63.0	75.0	55.0	57.5	86.0	85.6	75.0
Washington	80.0	70.0	60.0	89.0	77.0	80.0	65.0	63.0	88.0	95.0	88.0
Puerto Rico	60.0	55.0	54.8	S	S	57.7	S	S	S	S	65.0
Other U.S. territories and other areas	80.0	60.0	60.0	S	S	S	S	S	S	S	100.0

S = suppressed due to too few cases (fewer than 200 weighted cases).
S&E = science and engineering.

NOTES: Because survey sample design does not include geography, reliability of estimates in some states may be poor due to small sample size. Salaries are rounded to nearest 100.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.