

TABLE 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003

Occupation	Total			Hispanic			White			Other/unknown race/ethnicity <sup>a</sup>		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	Number											
All occupations	593,300	432,150	161,150	15,650	10,130	5,520	457,040	332,650	124,390	120,610	89,380	31,230
Science occupations	352,960	248,120	104,840	10,360	6,450	3,910	276,120	195,060	81,060	66,480	46,600	19,880
Biological, agricultural, and other life scientist	104,650	71,100	33,550	2,990	1,920	1,070	79,700	55,410	24,280	21,960	13,770	8,190
Agricultural/food scientist	8,200	6,820	1,380	300	230	70	6,390	5,370	1,020	1,520	1,230	290
Biochemist/biophysicist	13,920	9,800	4,120	240	160	90	9,450	7,130	2,310	4,230	2,510	1,720
Biological scientist	18,390	11,860	6,530	550	310	240	13,810	9,430	4,390	4,030	2,130	1,900
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	760	470	290	20,930	13,030	7,900	7,170	4,710	2,460
Postsecondary teacher, agricultural/other natural sciences	4,410	3,640	780	190	160	S	3,770	3,100	670	460	380	80
Postsecondary teacher, biological sciences	24,280	16,590	7,690	780	500	280	20,440	14,130	6,310	3,050	1,950	1,100
Other biological/agricultural/life scientist	5,200	3,100	2,100	150	80	70	3,630	2,210	1,420	1,420	810	620
Computer and information scientist	34,410	29,750	4,660	650	570	80	21,130	18,580	2,550	12,630	10,600	2,030
Computer/information scientist	26,770	23,220	3,550	430	370	60	15,870	14,080	1,780	10,470	8,770	1,700
Postsecondary teacher, computer science	7,640	6,530	1,110	220	200	S	5,260	4,490	760	2,160	1,830	330
Mathematical scientist	22,460	17,840	4,620	630	520	110	16,460	13,290	3,170	5,380	4,030	1,350
Mathematical scientist	8,830	6,990	1,830	250	190	50	5,800	4,710	1,100	2,770	2,100	680
Postsecondary teacher, mathematics/statistics	13,640	10,840	2,790	380	320	60	10,650	8,590	2,070	2,600	1,940	670
Physical scientist	73,730	62,730	11,010	1,840	1,510	330	58,140	50,040	8,100	13,750	11,180	2,570
Chemist, except biochemist	23,700	19,580	4,120	550	410	140	16,400	13,940	2,460	6,760	5,230	1,530
Earth/atmospheric/ocean scientist	9,010	7,850	1,160	280	250	S	7,480	6,520	960	1,240	1,080	170
Physicist/astronomer	13,650	12,670	980	240	210	S	11,140	10,410	720	2,280	2,050	230
Postsecondary teacher, chemistry	11,400	9,160	2,250	380	310	80	9,740	7,850	1,890	1,280	1,000	280
Postsecondary teacher, physics	7,810	6,910	900	250	230	S	6,370	5,650	720	1,190	1,030	160
Postsecondary teacher, other physical sciences	6,020	4,850	1,170	110	90	S	5,370	4,320	1,050	530	440	90
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	2,530	880	1,650	59,390	29,640	29,750	5,190	1,800	3,390
Psychologist	49,600	22,900	26,690	1,740	590	1,150	44,330	21,080	23,250	3,520	1,240	2,280
Postsecondary teacher, psychology	17,510	9,420	8,100	790	290	490	15,060	8,560	6,500	1,670	560	1,110
Social scientist	50,590	34,370	16,220	1,720	1,060	660	41,310	28,110	13,210	7,560	5,210	2,350
Economist	7,720	6,110	1,600	300	260	S	6,010	4,780	1,240	1,400	1,080	320
Political scientist	1,450	1,060	390	100	60	S	1,180	890	280	170	100	80
Postsecondary teacher, economics	8,410	7,080	1,340	100	90	S	6,590	5,580	1,010	1,720	1,400	320
Postsecondary teacher, political science	8,470	6,250	2,220	230	110	120	7,290	5,490	1,800	940	640	300
Postsecondary teacher, sociology	7,140	4,170	2,970	250	130	120	5,890	3,370	2,520	1,000	670	330
Postsecondary teacher, other social sciences	9,010	5,280	3,730	490	290	200	7,150	4,130	3,020	1,360	860	500
Sociologist/anthropologist	4,130	2,260	1,870	100	S	60	3,680	2,040	1,640	350	170	180
Other social scientist	4,280	2,180	2,090	140	70	70	3,530	1,830	1,690	610	280	330

TABLE 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003

Occupation	Total			Hispanic			White			Other/unknown race/ethnicity <sup>a</sup>				
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female		
Engineering occupations	77,000	70,040	6,960	1,660	1,420	240	49,280	45,150	4,130	26,070	23,470	2,600		
Aerospace/aeronautical/astronautical engineer	4,050	3,880	180	S	S	S	3,130	3,020	110	880	840	S		
Chemical engineer	7,010	6,300	700	190	180	S	4,280	3,950	340	2,540	2,170	370		
Civil/architectural/sanitary engineer	3,780	3,610	160	170	170	S	2,330	2,190	130	1,280	1,250	S		
Electrical engineer	16,550	15,240	1,310	230	190	S	9,320	8,820	490	7,000	6,220	780		
Materials/metallurgical engineer	1,340	1,120	220	S	S	S	770	660	110	550	460	90		
Mechanical engineer	8,570	8,020	540	90	80	S	4,920	4,700	220	3,550	3,240	310		
Postsecondary teacher, engineering	17,380	15,910	1,470	550	470	70	12,080	10,950	1,130	4,760	4,480	270		
Other engineer	18,330	15,970	2,360	370	300	80	12,450	10,860	1,580	5,510	4,810	700		
Science and engineering-related occupations	64,650	43,700	20,940	1,260	780	480	51,340	34,820	16,530	12,040	8,100	3,940		
Health-related occupation, except postsecondary teacher	17,050	10,280	6,770	410	230	190	13,020	8,000	5,020	3,620	2,050	1,570		
Postsecondary teacher, health and related sciences	17,330	8,710	8,620	420	190	230	14,270	7,090	7,180	2,640	1,440	1,210		
S&E manager	23,060	19,070	3,980	340	310	S	18,720	15,510	3,210	3,990	3,250	740		
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	2,360	2,130	230	1,180	950	220		
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	2,370	1,470	900	80,300	57,610	22,680	16,030	11,200	4,830		
Arts/humanities-related occupation	5,210	2,790	2,410	80	S	60	4,550	2,470	2,080	570	300	280		
Management-related occupation	15,120	10,520	4,600	320	200	120	11,410	7,950	3,460	3,390	2,370	1,020		
Non-S&E manager	44,320	34,450	9,870	990	700	290	36,520	28,550	7,970	6,810	5,200	1,600		
Non-S&E postsecondary teacher	11,860	7,380	4,470	490	270	220	9,450	6,050	3,410	1,910	1,070	850		
Non-S&E precollege/other teacher	2,400	1,100	1,310	90	50	S	2,000	910	1,090	310	130	180		
Sales/marketing occupation	7,810	6,190	1,630	140	100	S	6,280	5,020	1,260	1,390	1,070	320		
Social service-related occupation	3,390	1,880	1,510	130	60	70	2,680	1,480	1,190	590	340	250		
Other non-S&E occupation	8,130	5,560	2,570	120	60	60	6,950	4,770	2,180	1,060	730	320		
				Percent										
All occupations	100.0	72.8	27.2	100.0	64.7	35.3	100.0	72.8	27.2	100.0	74.1	25.9		
Science occupations	100.0	70.3	29.7	100.0	62.3	37.7	100.0	70.6	29.4	100.0	70.1	29.9		
Biological, agricultural, and other life scientist	100.0	67.9	32.1	100.0	64.1	35.9	100.0	69.5	30.5	100.0	62.7	37.3		
Agricultural/food scientist	100.0	83.1	16.9	100.0	75.2	24.8	100.0	84.0	16.0	100.0	81.0	19.0		
Biochemist/biophysicist	100.0	70.4	29.6	100.0	65.0	35.0	100.0	75.5	24.5	100.0	59.3	40.7		
Biological scientist	100.0	64.5	35.5	100.0	56.5	43.5	100.0	68.2	31.8	100.0	52.8	47.2		
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	61.4	38.6	100.0	62.3	37.7	100.0	65.7	34.3		
Postsecondary teacher, agricultural/other natural sciences	100.0	82.4	17.6	100.0	83.4	S	100.0	82.3	17.7	100.0	82.5	17.5		
Postsecondary teacher, biological sciences	100.0	68.3	31.7	100.0	64.2	35.8	100.0	69.1	30.9	100.0	64.0	36.0		
Other biological/agricultural/life scientist	100.0	59.6	40.4	100.0	54.2	45.8	100.0	61.0	39.0	100.0	56.7	43.3		
Computer and information scientist	100.0	86.5	13.5	100.0	87.4	12.6	100.0	87.9	12.1	100.0	83.9	16.1		
Computer/information scientist	100.0	86.8	13.2	100.0	85.3	14.7	100.0	88.8	11.2	100.0	83.8	16.2		

TABLE 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003

Occupation	Total			Hispanic			White			Other/unknown race/ethnicity <sup>a</sup>		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Postsecondary teacher, computer science	100.0	85.4	14.6	100.0	91.5	S	100.0	85.5	14.5	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	75.0	25.0
Mathematical scientist	100.0	79.2	20.8	100.0	78.0	22.0	100.0	81.1	18.9	100.0	75.5	24.5
Postsecondary teacher, mathematics/statistics	100.0	79.5	20.5	100.0	85.1	14.9	100.0	80.6	19.4	100.0	74.4	25.6
Physical scientist	100.0	85.1	14.9	100.0	82.1	17.9	100.0	86.1	13.9	100.0	81.3	18.7
Chemist, except biochemist	100.0	82.6	17.4	100.0	75.0	25.0	100.0	85.0	15.0	100.0	77.4	22.6
Earth/atmospheric/ocean scientist	100.0	87.1	12.9	100.0	89.2	S	100.0	87.1	12.9	100.0	86.7	13.3
Physicist/astronomer	100.0	92.8	7.2	100.0	88.4	S	100.0	93.5	6.5	100.0	89.9	10.1
Postsecondary teacher, chemistry	100.0	80.3	19.7	100.0	80.1	19.9	100.0	80.6	19.4	100.0	78.1	21.9
Postsecondary teacher, physics	100.0	88.5	11.5	100.0	90.8	S	100.0	88.8	11.2	100.0	86.4	13.6
Postsecondary teacher, other physical sciences	100.0	80.6	19.4	100.0	76.9	S	100.0	80.4	19.6	100.0	82.4	17.6
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	34.8	65.2	100.0	49.9	50.1	100.0	34.7	65.3
Psychologist	100.0	46.2	53.8	100.0	33.7	66.3	100.0	47.5	52.5	100.0	35.2	64.8
Postsecondary teacher, psychology	100.0	53.8	46.2	100.0	37.4	62.6	100.0	56.8	43.2	100.0	33.8	66.2
Social scientist	100.0	67.9	32.1	100.0	61.5	38.5	100.0	68.0	32.0	100.0	68.9	31.1
Economist	100.0	79.3	20.7	100.0	84.5	S	100.0	79.4	20.6	100.0	77.3	22.7
Political scientist	100.0	72.8	27.2	100.0	64.7	S	100.0	75.9	24.1	100.0	56.7	43.3
Postsecondary teacher, economics	100.0	84.1	15.9	100.0	90.9	S	100.0	84.7	15.3	100.0	81.3	18.7
Postsecondary teacher, political science	100.0	73.8	26.2	100.0	48.1	51.9	100.0	75.3	24.7	100.0	68.5	31.5
Postsecondary teacher, sociology	100.0	58.4	41.6	100.0	50.8	49.2	100.0	57.2	42.8	100.0	67.2	32.8
Postsecondary teacher, other social sciences	100.0	58.6	41.4	100.0	59.1	40.9	100.0	57.7	42.3	100.0	63.1	36.9
Sociologist/anthropologist	100.0	54.7	45.3	100.0	S	56.7	100.0	55.4	44.6	100.0	49.8	50.2
Other social scientist	100.0	51.1	48.9	100.0	51.4	48.6	100.0	51.9	48.1	100.0	45.8	54.2
Engineering occupations	100.0	91.0	9.0	100.0	85.8	14.2	100.0	91.6	8.4	100.0	90.0	10.0
Aerospace/aeronautical/astronautical engineer	100.0	95.6	4.4	100.0	S	S	100.0	96.4	3.6	100.0	95.3	S
Chemical engineer	100.0	89.9	10.1	100.0	97.8	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	94.3	5.7	100.0	97.6	S
Electrical engineer	100.0	92.1	7.9	100.0	83.7	S	100.0	94.7	5.3	100.0	88.9	11.1
Materials/metallurgical engineer	100.0	83.8	16.2	100.0	S	S	100.0	85.5	14.5	100.0	83.3	16.7
Mechanical engineer	100.0	93.6	6.4	100.0	86.2	S	100.0	95.5	4.5	100.0	91.3	8.7
Postsecondary teacher, engineering	100.0	91.5	8.5	100.0	87.0	13.0	100.0	90.6	9.4	100.0	94.3	5.7
Other engineer	100.0	87.1	12.9	100.0	79.8	20.2	100.0	87.3	12.7	100.0	87.2	12.8
Science and engineering-related occupations	100.0	67.6	32.4	100.0	62.0	38.0	100.0	67.8	32.2	100.0	67.3	32.7
Health-related occupation, except postsecondary teacher	100.0	60.3	39.7	100.0	54.8	45.2	100.0	61.5	38.5	100.0	56.7	43.3
Postsecondary teacher, health and related sciences	100.0	50.3	49.7	100.0	44.5	55.5	100.0	49.7	50.3	100.0	54.3	45.7
S&E manager	100.0	82.7	17.3	100.0	91.2	S	100.0	82.8	17.2	100.0	81.4	18.6
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	90.4	9.6	100.0	80.9	19.1
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

TABLE 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2003

Occupation	Total			Hispanic			White			Other/unknown race/ethnicity <sup>a</sup>		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Non-science and engineering occupations	100.0	71.2	28.8	100.0	62.1	37.9	100.0	71.8	28.2	100.0	69.9	30.1
Arts/humanities-related occupation	100.0	53.6	46.4	100.0	S	68.0	100.0	54.3	45.7	100.0	51.6	48.4
Management-related occupation	100.0	69.6	30.4	100.0	62.4	37.6	100.0	69.7	30.3	100.0	69.9	30.1
Non-S&E manager	100.0	77.7	22.3	100.0	70.6	29.4	100.0	78.2	21.8	100.0	76.5	23.5
Non-S&E postsecondary teacher	100.0	62.3	37.7	100.0	55.2	44.8	100.0	64.0	36.0	100.0	55.7	44.3
Non-S&E precollege/other teacher	100.0	45.6	54.4	100.0	56.5	S	100.0	45.7	54.3	100.0	41.9	58.1
Sales/marketing occupation	100.0	79.2	20.8	100.0	67.1	S	100.0	80.0	20.0	100.0	76.8	23.2
Social service-related occupation	100.0	55.5	44.5	100.0	47.7	52.3	100.0	55.5	44.5	100.0	57.2	42.8
Other non-S&E occupation	100.0	68.4	31.6	100.0	52.1	47.9	100.0	68.6	31.4	100.0	69.3	30.7

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

S&E = science and engineering.

<sup>a</sup> Includes American Indians/Native Americans, Asians, Blacks, Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity). Detail for "American Indian/Alaska Native," "Asian," "Black," and "Other/unknown race/ethnicity" 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.