

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	

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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.