

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
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.