

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

Employment sector and occupation	Total	American	Asian	Black	Hispanic	White	Other/ unknown race/ ethnicity ^a
		Indian/ Alaska Native					Number
All sectors	593,300	3,950	98,170	17,480	15,650	457,040	1,010
Science occupations	352,960	2,640	53,350	9,830	10,360	276,120	650
Biological, agricultural, and other life scientist	104,650	750	18,630	2,370	2,990	79,700	210
Computer and information scientist	34,410	170	11,700	720	650	21,130	S
Mathematical scientist	22,460	S	4,750	600	630	16,460	S
Physical scientist	73,730	460	11,980	1,150	1,840	58,140	160
Psychologist	67,110	750	1,770	2,540	2,530	59,390	140
Social scientist	50,590	490	4,520	2,460	1,720	41,310	90
Engineering occupations	77,000	250	23,980	1,690	1,660	49,280	150
S&E-related occupations	64,650	400	9,440	2,050	1,260	51,340	150
Non-science and engineering occupations	98,700	660	11,400	3,910	2,370	80,300	60
Universities and 4-year colleges	259,380	1,790	34,210	9,640	8,510	204,840	390
Science occupations	181,190	1,360	23,720	5,880	6,240	143,680	310
Biological, agricultural, and other life scientist	62,680	380	10,450	1,560	2,150	48,060	70
Computer and information scientist	9,820	50	2,370	270	220	6,900	S
Mathematical scientist	14,920	S	2,520	430	470	11,470	S
Physical scientist	33,180	250	4,320	540	980	27,010	90
Psychologist	23,680	260	750	1,160	1,160	20,260	80
Social scientist	36,910	390	3,320	1,910	1,260	29,980	S
Engineering occupations	22,920	110	5,220	940	750	15,860	S
S&E-related occupations	26,460	170	3,310	1,030	620	21,300	S
Non-S&E occupations	28,820	150	1,960	1,790	900	24,000	S
Other educational institutions	20,170	130	1,600	1,140	680	16,600	S
Science occupations	11,830	50	980	590	400	9,800	S
Biological, agricultural, and other life scientist	2,520	S	270	120	S	2,080	S
Computer and information scientist	300	S	70	S	S	180	S
Mathematical scientist	790	S	300	S	S	470	S
Physical scientist	2,570	S	140	60	70	2,300	S
Psychologist	4,170	S	120	270	230	3,530	S
Social scientist	1,480	S	90	120	S	1,240	S
Engineering occupations	340	S	120	S	S	220	S
S&E-related occupations	3,770	50	260	250	70	3,140	S
Non-S&E occupations	4,230	S	230	290	210	3,450	S
Private-for-profit	187,570	950	49,700	3,270	3,570	129,810	270
Science occupations	82,770	450	21,130	1,450	1,720	57,840	180
Biological, agricultural, and other life scientist	20,840	110	5,110	330	470	14,760	70
Computer and information scientist	20,850	70	8,470	330	360	11,580	S
Mathematical scientist	3,700	S	1,250	60	100	2,290	S
Physical scientist	24,190	110	5,750	350	430	17,520	S
Psychologist	9,700	90	220	290	300	8,770	S
Social scientist	3,490	50	350	90	60	2,910	S
Engineering occupations	41,990	100	16,640	540	650	24,030	S
S&E-related occupations	21,810	110	4,490	420	430	16,300	60
Non-S&E occupations	41,000	300	7,430	860	770	31,640	S
Private not-for-profit	29,650	230	3,540	870	600	24,330	80
Science occupations	16,220	100	2,280	400	360	13,020	50
Biological, agricultural, and other life scientist	4,350	S	910	S	S	3,340	S
Computer and information scientist	990	S	210	70	S	680	S
Mathematical scientist	840	S	120	S	S	710	S
Physical scientist	2,160	S	490	S	S	1,630	S
Psychologist	5,500	S	300	200	170	4,780	S
Social scientist	2,370	S	250	80	120	1,880	S

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

Employment sector and occupation	Total	American	Asian	Black	Hispanic	White	Other/ unknown race/ ethnicity ^a	
		Indian/ Alaska Native						
Engineering occupations	1,910	S	480	S	60	1,340	S	
S&E-related occupations	3,980	50	320	120	S	3,450	S	
Non-S&E occupations	7,540	70	460	340	150	6,520	S	
Federal government	41,090	320	4,900	1,300	900	33,570	110	
Science occupations	26,600	300	3,460	800	680	21,290	80	
Biological, agricultural, and other life scientist	10,180	140	1,600	240	200	7,980	S	
Computer and information scientist	970	S	230	S	S	690	S	
Mathematical scientist	1,520	S	390	80	S	1,030	S	
Physical scientist	8,210	70	960	130	250	6,760	S	
Psychologist	2,350	90	S	140	100	1,980	S	
Social scientist	3,370	S	240	160	110	2,840	S	
Engineering occupations	5,590	S	960	110	110	4,360	S	
S&E-related occupations	3,940	S	230	120	60	3,540	S	
Non-S&E occupations	4,970	S	250	280	S	4,390	S	
State and local government	15,970	140	1,870	680	420	12,770	90	
Science occupations	9,410	80	920	390	290	7,700	S	
Biological, agricultural, and other life scientist	2,160	S	190	S	60	1,830	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	70	1,250	S	
Psychologist	3,880	S	190	230	120	3,300	S	
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	S	1,430	S	
Non-S&E occupations	3,310	S	220	150	90	2,780	S	
Self-employed	36,130	380	1,750	530	820	32,600	S	
Science occupations	23,000	300	550	290	570	21,290	S	
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	220	150	250	450	16,470	S	
Social scientist	860	S	S	S	S	820	S	
Engineering occupations	2,670	S	190	S	70	2,320	S	
S&E-related occupations	2,380	S	370	S	S	1,950	S	
Non-S&E occupations	8,070	50	640	170	160	7,040	S	
Other	3,340	S	600	60	150	2,520	S	
Science occupations	1,950	S	300	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	S	290	S	
S&E-related occupations	300	S	60	S	S	230	S	
Non-S&E occupations	770	S	200	S	50	480	S	
			Percent					
All sectors	100.0	0.7	16.5	2.9	2.6	77.0	0.2	
Science occupations	100.0	0.7	15.1	2.8	2.9	78.2	0.2	
Biological, agricultural, and other life scientist	100.0	0.7	17.8	2.3	2.9	76.2	0.2	
Computer and information scientist	100.0	0.5	34.0	2.1	1.9	61.4	S	

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

Employment sector and occupation	Total	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other/ unknown race/ ethnicity ^a
Mathematical scientist	100.0	S	21.1	2.7	2.8	73.3	S
Physical scientist	100.0	0.6	16.3	1.6	2.5	78.9	0.2
Psychologist	100.0	1.1	2.6	3.8	3.8	88.5	0.2
Social scientist	100.0	1.0	8.9	4.9	3.4	81.7	0.2
Engineering occupations	100.0	0.3	31.1	2.2	2.2	64.0	0.2
S&E-related occupations	100.0	0.6	14.6	3.2	2.0	79.4	0.2
Non-S&E occupations	100.0	0.7	11.6	4.0	2.4	81.4	0.1
Universities and 4-year colleges	100.0	0.7	13.2	3.7	3.3	79.0	0.2
Science occupations	100.0	0.7	13.1	3.2	3.4	79.3	0.2
Biological, agricultural, and other life scientist	100.0	0.6	16.7	2.5	3.4	76.7	0.1
Computer and information scientist	100.0	0.5	24.1	2.8	2.3	70.2	S
Mathematical scientist	100.0	S	16.9	2.9	3.1	76.9	S
Physical scientist	100.0	0.8	13.0	1.6	2.9	81.4	0.3
Psychologist	100.0	1.1	3.2	4.9	4.9	85.6	0.3
Social scientist	100.0	1.1	9.0	5.2	3.4	81.2	S
Engineering occupations	100.0	0.5	22.8	4.1	3.3	69.2	S
S&E-related occupations	100.0	0.6	12.5	3.9	2.3	80.5	S
Non-S&E occupations	100.0	0.5	6.8	6.2	3.1	83.3	S
Other educational institutions	100.0	0.7	7.9	5.6	3.4	82.3	S
Science occupations	100.0	0.5	8.3	5.0	3.3	82.8	S
Biological, agricultural, and other life scientist	100.0	S	10.6	4.8	S	82.4	S
Computer and information scientist	100.0	S	23.3	S	S	60.8	S
Mathematical scientist	100.0	S	38.4	S	S	58.6	S
Physical scientist	100.0	S	5.3	2.3	2.7	89.7	S
Psychologist	100.0	S	2.8	6.4	5.4	84.7	S
Social scientist	100.0	S	5.9	8.2	S	84.0	S
Engineering occupations	100.0	S	33.9	S	S	64.0	S
S&E-related occupations	100.0	1.3	7.0	6.7	1.7	83.2	S
Non-S&E occupations	100.0	S	5.5	6.9	5.0	81.5	S
Private-for-profit	100.0	0.5	26.5	1.7	1.9	69.2	0.1
Science occupations	100.0	0.5	25.5	1.7	2.1	69.9	0.2
Biological, agricultural, and other life scientist	100.0	0.5	24.5	1.6	2.2	70.8	0.3
Computer and information scientist	100.0	0.4	40.6	1.6	1.7	55.6	S
Mathematical scientist	100.0	S	33.7	1.6	2.7	62.0	S
Physical scientist	100.0	0.5	23.8	1.4	1.8	72.4	S
Psychologist	100.0	1.0	2.2	3.0	3.1	90.5	S
Social scientist	100.0	1.5	9.9	2.6	1.7	83.5	S
Engineering occupations	100.0	0.2	39.6	1.3	1.6	57.2	S
S&E-related occupations	100.0	0.5	20.6	1.9	2.0	74.7	0.3
Non-S&E occupations	100.0	0.7	18.1	2.1	1.9	77.2	S
Private not-for-profit	100.0	0.8	11.9	2.9	2.0	82.1	0.3
Science occupations	100.0	0.6	14.1	2.5	2.2	80.3	0.3
Biological, agricultural, and other life scientist	100.0	S	20.8	S	S	76.7	S
Computer and information scientist	100.0	S	21.3	7.0	S	68.5	S
Mathematical scientist	100.0	S	14.0	S	S	84.2	S
Physical scientist	100.0	S	22.9	S	S	75.3	S
Psychologist	100.0	S	5.5	3.6	3.1	87.0	S
Social scientist	100.0	S	10.7	3.2	5.2	79.3	S
Engineering occupations	100.0	S	25.3	S	3.0	70.1	S
S&E-related occupations	100.0	1.4	7.9	3.0	S	86.7	S
Non-S&E occupations	100.0	0.9	6.1	4.5	1.9	86.5	S
Federal government	100.0	0.8	11.9	3.2	2.2	81.7	0.3

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Employment sector and occupation	Total	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other/ unknown race/ ethnicity ^a
Science occupations	100.0	1.1	13.0	3.0	2.6	80.0	0.3
Biological, agricultural, and other life scientist	100.0	1.4	15.7	2.3	1.9	78.3	S
Computer and information scientist	100.0	S	23.7	S	S	71.4	S
Mathematical scientist	100.0	S	25.8	5.6	S	68.0	S
Physical scientist	100.0	0.8	11.7	1.6	3.0	82.4	S
Psychologist	100.0	3.6	S	6.0	4.3	84.3	S
Social scientist	100.0	S	7.0	4.8	3.3	84.4	S
Engineering occupations	100.0	S	17.2	1.9	2.0	78.0	S
S&E-related occupations	100.0	S	5.7	3.1	1.4	89.7	S
Non-S&E occupations	100.0	S	5.1	5.6	S	88.4	S
State and local government	100.0	0.9	11.7	4.2	2.6	79.9	0.6
Science occupations	100.0	0.8	9.8	4.2	3.1	81.8	S
Biological, agricultural, and other life scientist	100.0	S	8.8	S	2.7	84.6	S
Computer and information scientist	100.0	S	38.5	S	S	61.5	S
Mathematical scientist	100.0	S	40.0	S	S	60.0	S
Physical scientist	100.0	S	12.2	S	4.4	79.1	S
Psychologist	100.0	S	4.8	6.0	3.1	85.1	S
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	S	71.4	S
Non-S&E occupations	100.0	S	6.6	4.5	2.9	84.0	S
Self-employed	100.0	1.1	4.8	1.5	2.3	90.2	S
Science occupations	100.0	1.3	2.4	1.3	2.5	92.5	S
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	82.5	S
Physical scientist	100.0	S	8.4	S	S	88.5	S
Psychologist	100.0	1.3	0.9	1.4	2.6	93.9	S
Social scientist	100.0	S	S	S	S	95.1	S
Engineering occupations	100.0	S	7.1	S	2.6	86.7	S
S&E-related occupations	100.0	S	15.7	S	S	81.9	S
Non-S&E occupations	100.0	0.7	7.9	2.1	1.9	87.3	S
Other	100.0	S	17.9	1.9	4.5	75.4	S
Science occupations	100.0	S	15.4	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	S	89.5	S
S&E-related occupations	100.0	S	19.8	S	S	77.7	S
Non-S&E occupations	100.0	S	26.7	S	6.7	62.8	S

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

S&E = science and engineering.

^a Includes Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

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.