

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

Occupation	Total			American Indian/ Alaska Native			Asian			Black			Other/unknown race/ethnicity ^a		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	Number														
All occupations	120,610	89,380	31,230	3,950	2,790	1,170	98,170	75,340	22,830	17,480	10,560	6,930	1,010	700	310
Science occupations	66,480	46,600	19,880	2,640	1,890	760	53,350	38,470	14,880	9,830	5,800	4,030	650	450	200
Biological, agricultural, and other life scientist	21,960	13,770	8,190	750	530	220	18,630	11,720	6,910	2,370	1,390	970	210	130	80
Agricultural/food scientist	1,520	1,230	290	100	80	S	1,190	940	240	230	210	S	S	S	S
Biochemist/biophysicist	4,230	2,510	1,720	50	S	S	4,020	2,410	1,600	120	S	70	S	S	S
Biological scientist	4,030	2,130	1,900	140	60	80	3,460	1,860	1,600	360	160	200	80	S	S
Forestry/conservation scientist	80	60	S	S	S	S	S	S	S	S	S	S	S	S	S
Medical scientist	7,170	4,710	2,460	100	70	S	6,430	4,300	2,130	620	340	280	S	S	S
Postsecondary teacher, agricultural/other natural sciences	460	380	80	100	100	S	240	170	70	130	110	S	S	S	S
Postsecondary teacher, biological sciences	3,050	1,950	1,100	180	150	S	2,010	1,280	730	780	450	330	80	70	S
Other biological/agricultural/life scientist	1,420	810	620	50	S	S	1,260	720	540	110	60	50	S	S	S
Computer and information scientist	12,630	10,600	2,030	170	170	S	11,700	9,790	1,910	720	600	110	S	S	S
Computer/information scientist	10,470	8,770	1,700	150	150	S	9,830	8,190	1,640	460	390	60	S	S	S
Postsecondary teacher, computer science	2,160	1,830	330	S	S	S	1,870	1,600	270	260	210	50	S	S	S
Mathematical scientist	5,380	4,030	1,350	S	S	S	4,750	3,550	1,200	600	450	140	S	S	S
Mathematical scientist	2,770	2,100	680	S	S	S	2,480	1,890	590	290	210	80	S	S	S
Postsecondary teacher, mathematics/statistics	2,600	1,940	670	S	S	S	2,270	1,660	600	310	250	60	S	S	S
Physical scientist	13,750	11,180	2,570	460	400	50	11,980	9,740	2,250	1,150	910	250	160	130	S
Chemist, except biochemist	6,760	5,230	1,530	170	160	S	6,100	4,680	1,420	430	360	80	50	S	S
Earth/atmospheric/ocean scientist	1,240	1,080	170	60	50	S	1,100	940	160	S	S	S	S	S	S
Physicist/astronomer	2,280	2,050	230	S	S	S	2,160	1,970	190	80	70	S	S	S	S
Postsecondary teacher, chemistry	1,280	1,000	280	70	70	S	860	680	170	350	250	100	S	S	S
Postsecondary teacher, physics	1,190	1,030	160	S	S	S	1,030	880	140	110	90	S	S	S	S
Postsecondary teacher, other physical sciences	530	440	90	80	70	S	350	290	60	60	S	S	S	S	S
Other physical scientist	460	350	110	S	S	S	390	280	110	80	70	S	S	S	S
Psychologist	5,190	1,800	3,390	750	420	330	1,770	470	1,300	2,540	840	1,700	140	80	60
Psychologist	3,520	1,240	2,280	520	320	200	1,230	300	930	1,670	560	1,110	100	60	S
Postsecondary teacher, psychology	1,670	560	1,110	230	100	130	540	160	380	870	280	590	S	S	S
Social scientist	7,560	5,210	2,350	490	350	150	4,520	3,200	1,320	2,460	1,600	860	90	60	S
Economist	1,400	1,080	320	50	50	S	1,130	860	270	200	160	S	S	S	S
Political scientist	170	100	80	S	S	S	90	50	S	60	S	S	S	S	S
Postsecondary teacher, economics	1,720	1,400	320	S	S	S	1,300	1,070	230	400	310	90	S	S	S
Postsecondary teacher, political science	940	640	300	S	S	S	370	220	150	520	400	120	S	S	S
Postsecondary teacher, sociology	1,000	670	330	70	50	S	400	260	140	540	360	180	S	S	S
Postsecondary teacher, other social sciences	1,360	860	500	220	170	S	810	560	250	300	100	190	S	S	S
Sociologist/anthropologist	350	170	180	S	S	S	110	60	60	180	70	110	S	S	S

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Occupation	Total			American Indian/ Alaska Native			Asian			Black			Other/unknown race/ethnicity ^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	310	130	180	260	150	110	S	S	S			
Engineering occupations	26,070	23,470	2,600	250	240	S	23,980	21,640	2,340	1,690	1,470	220	150	120	S			
Aerospace/aeronautical/astronautical engineer	880	840	S	S	S	S	800	770	S	60	S	S	S	S	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	1,280	1,250	S	S	S	S	1,170	1,150	S	80	80	S	S	S	S			
Electrical engineer	7,000	6,220	780	S	S	S	6,670	5,940	740	250	230	S	S	S	S			
Materials/metallurgical engineer	550	460	90	S	S	S	530	450	80	S	S	S	S	S	S			
Mechanical engineer	3,550	3,240	310	S	S	S	3,450	3,140	310	80	70	S	S	S	S			
Postsecondary teacher, engineering	4,760	4,480	270	90	90	S	3,780	3,620	160	850	740	110	S	S	S			
Other engineer	5,510	4,810	700	S	S	S	5,240	4,570	660	190	160	S	60	60	S			
Science and engineering-related occupations	12,040	8,100	3,940	400	210	190	9,440	6,720	2,720	2,050	1,070	990	150	110	S			
Health-related occupation, except postsecondary teacher	3,620	2,050	1,570	140	110	S	2,690	1,510	1,180	720	390	340	70	S	S			
Postsecondary teacher, health and related sciences	2,640	1,440	1,210	120	S	120	1,800	1,190	610	710	240	470	S	S	S			
S&E manager	3,990	3,250	740	80	S	S	3,460	2,860	610	420	320	100	S	S	S			
S&E precollege teacher	490	320	170	50	S	S	240	170	80	200	120	70	S	S	S			
S&E technician/technologist	1,180	950	220	S	S	S	1,150	930	220	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	16,030	11,200	4,830	660	450	200	11,400	8,510	2,890	3,910	2,210	1,690	60	S	S			
Arts/humanities-related occupation	570	300	280	S	S	S	440	190	250	130	110	S	S	S	S			
Management-related occupation	3,390	2,370	1,020	80	S	S	2,790	2,000	790	520	320	200	S	S	S			
Non-S&E manager	6,810	5,200	1,600	210	190	S	4,800	3,970	820	1,780	1,020	760	S	S	S			
Non-S&E postsecondary teacher	1,910	1,070	850	70	S	S	1,110	690	420	720	320	400	S	S	S			
Non-S&E precollege/other teacher	310	130	180	S	S	S	180	60	110	120	70	60	S	S	S			
Sales/marketing occupation	1,390	1,070	320	120	S	70	1,150	940	210	120	80	S	S	S	S			
Social service-related occupation	590	340	250	60	S	S	260	180	80	270	120	150	S	S	S			
Other non-S&E occupation	1,060	730	320	110	80	S	670	470	200	260	180	80	S	S	S			
							Percent											
All occupations	100.0	74.1	25.9	100.0	70.4	29.6	100.0	76.7	23.3	100.0	60.4	39.6	100.0	69.5	30.5			
Science occupations	100.0	70.1	29.9	100.0	71.4	28.6	100.0	72.1	27.9	100.0	59.0	41.0	100.0	68.7	31.3			
Biological, agricultural, and other life scientist	100.0	62.7	37.3	100.0	70.3	29.7	100.0	62.9	37.1	100.0	58.9	41.1	100.0	62.1	37.9			
Agricultural/food scientist	100.0	81.0	19.0	100.0	74.9	S	100.0	79.7	20.3	100.0	90.0	S	100.0	S	S			
Biochemist/biophysicist	100.0	59.3	40.7	100.0	S	S	100.0	60.1	39.9	100.0	S	59.7	100.0	S	S			
Biological scientist	100.0	52.8	47.2	100.0	46.3	53.7	100.0	53.8	46.2	100.0	45.1	54.9	100.0	S	S			
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	65.7	34.3	100.0	71.9	S	100.0	66.8	33.2	100.0	55.2	44.8	100.0	S	S			
Postsecondary teacher, agricultural/other natural sciences	100.0	82.5	17.5	100.0	100.0	S	100.0	72.4	27.6	100.0	87.8	S	100.0	S	S			
Postsecondary teacher, biological sciences	100.0	64.0	36.0	100.0	81.0	S	100.0	63.7	36.3	100.0	58.0	42.0	100.0	93.2	S			

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Occupation	Total			American Indian/ Alaska Native			Asian			Black			Other/unknown race/ethnicity ^a		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Other biological/agricultural/ life scientist	100.0	56.7	43.3	100.0	S	S	100.0	57.4	42.6	100.0	54.3	45.7	100.0	S	S
Computer and information scientist	100.0	83.9	16.1	100.0	100.0	S	100.0	83.7	16.3	100.0	84.2	15.8	100.0	S	S
Computer/information scientist	100.0	83.8	16.2	100.0	100.0	S	100.0	83.3	16.7	100.0	86.6	13.4	100.0	S	S
Postsecondary teacher, computer science	100.0	84.7	15.3	100.0	S	S	100.0	85.6	14.4	100.0	80.1	19.9	100.0	S	S
Mathematical scientist	100.0	75.0	25.0	100.0	S	S	100.0	74.8	25.2	100.0	75.9	24.1	100.0	S	S
Mathematical scientist	100.0	75.5	24.5	100.0	S	S	100.0	76.1	23.9	100.0	71.9	28.1	100.0	S	S
Postsecondary teacher, mathematics/statistics	100.0	74.4	25.6	100.0	S	S	100.0	73.4	26.6	100.0	79.6	20.4	100.0	S	S
Physical scientist	100.0	81.3	18.7	100.0	88.4	11.6	100.0	81.2	18.8	100.0	78.7	21.3	100.0	82.9	S
Chemist, except biochemist	100.0	77.4	22.6	100.0	91.9	S	100.0	76.8	23.2	100.0	81.8	18.2	100.0	S	S
Earth/atmospheric/ocean scientist	100.0	86.7	13.3	100.0	92.0	S	100.0	85.4	14.6	100.0	S	S	100.0	S	S
Physicist/astronomer	100.0	89.9	10.1	100.0	S	S	100.0	91.0	9.0	100.0	85.5	S	100.0	S	S
Postsecondary teacher, chemistry	100.0	78.1	21.9	100.0	100.0	S	100.0	80.0	20.0	100.0	71.2	28.8	100.0	S	S
Postsecondary teacher, physics	100.0	86.4	13.6	100.0	S	S	100.0	86.0	14.0	100.0	83.2	S	100.0	S	S
Postsecondary teacher, other physical sciences	100.0	82.4	17.6	100.0	88.9	S	100.0	83.7	16.3	100.0	S	S	100.0	S	S
Other physical scientist	100.0	75.4	24.6	100.0	S	S	100.0	72.7	27.3	100.0	88.9	S	100.0	S	S
Psychologist	100.0	34.7	65.3	100.0	55.8	44.2	100.0	26.4	73.6	100.0	33.2	66.8	100.0	56.4	43.6
Psychologist	100.0	35.2	64.8	100.0	61.7	38.3	100.0	24.6	75.4	100.0	33.6	66.4	100.0	53.1	S
Postsecondary teacher, psychology	100.0	33.8	66.2	100.0	42.5	57.5	100.0	30.4	69.6	100.0	32.3	67.7	100.0	S	S
Social scientist	100.0	68.9	31.1	100.0	70.1	29.9	100.0	70.9	29.1	100.0	65.1	34.9	100.0	69.0	S
Economist	100.0	77.3	22.7	100.0	100.0	S	100.0	76.0	24.0	100.0	79.2	S	100.0	S	S
Political scientist	100.0	56.7	43.3	100.0	S	S	100.0	60.9	S	100.0	S	S	100.0	S	S
Postsecondary teacher, economics	100.0	81.3	18.7	100.0	S	S	100.0	82.2	17.8	100.0	77.6	22.4	100.0	S	S
Postsecondary teacher, political science	100.0	68.5	31.5	100.0	S	S	100.0	58.4	41.6	100.0	77.2	22.8	100.0	S	S
Postsecondary teacher, sociology	100.0	67.2	32.8	100.0	78.1	S	100.0	65.0	35.0	100.0	67.4	32.6	100.0	S	S
Postsecondary teacher, other social sciences	100.0	63.1	36.9	100.0	78.4	S	100.0	69.2	30.8	100.0	34.6	65.4	100.0	S	S
Sociologist/anthropologist	100.0	49.8	50.2	100.0	S	S	100.0	49.7	50.3	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	42.1	57.9	100.0	57.1	42.9	100.0	S	S
Engineering occupations	100.0	90.0	10.0	100.0	94.5	S	100.0	90.3	9.7	100.0	87.2	12.8	100.0	79.7	S
Aerospace/aeronautical/astronautical engineer	100.0	95.3	S	100.0	S	S	100.0	96.7	S	100.0	S	S	100.0	S	S
Chemical engineer	100.0	85.6	14.4	100.0	S	S	100.0	85.7	14.3	100.0	84.5	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	88.9	11.1	100.0	93.4	S	100.0	S	S
Materials/metallurgical engineer	100.0	83.3	16.7	100.0	S	S	100.0	84.8	15.2	100.0	S	S	100.0	S	S
Mechanical engineer	100.0	91.3	8.7	100.0	S	S	100.0	91.1	8.9	100.0	93.1	S	100.0	S	S
Postsecondary teacher, engineering	100.0	94.3	5.7	100.0	100.0	S	100.0	95.7	4.3	100.0	87.3	12.7	100.0	S	S
Other engineer	100.0	87.2	12.8	100.0	S	S	100.0	87.3	12.7	100.0	82.0	S	100.0	100.0	S
Science and engineering-related occupations	100.0	67.3	32.7	100.0	51.9	48.1	100.0	71.2	28.8	100.0	52.0	48.0	100.0	75.2	S

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Occupation	Total			American Indian/ Alaska Native			Asian			Black			Other/unknown race/ethnicity ^a		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Health-related occupation, except postsecondary teacher	100.0	56.7	43.3	100.0	82.8	S	100.0	56.1	43.9	100.0	53.4	46.6	100.0	S	S
Postsecondary teacher, health and related sciences	100.0	54.3	45.7	100.0	S	100.0	100.0	66.1	33.9	100.0	33.5	66.5	100.0	S	S
S&E manager	100.0	81.4	18.6	100.0	S	S	100.0	82.5	17.5	100.0	75.9	24.1	100.0	S	S
S&E precollege teacher	100.0	65.1	34.9	100.0	S	S	100.0	68.7	31.3	100.0	62.8	37.2	100.0	S	S
S&E technician/technologist	100.0	80.9	19.1	100.0	S	S	100.0	80.8	19.2	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	68.9	31.1	100.0	74.6	25.4	100.0	56.7	43.3	100.0	S	S
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	69.9	30.1	100.0	S	S	100.0	71.6	28.4	100.0	61.3	38.7	100.0	S	S
Non-S&E manager	100.0	76.5	23.5	100.0	91.4	S	100.0	82.8	17.2	100.0	57.4	42.6	100.0	S	S
Non-S&E postsecondary teacher	100.0	55.7	44.3	100.0	S	S	100.0	62.1	37.9	100.0	44.9	55.1	100.0	S	S
Non-S&E precollege/other teacher	100.0	41.9	58.1	100.0	S	S	100.0	35.9	64.1	100.0	54.0	46.0	100.0	S	S
Sales/marketing occupation	100.0	76.8	23.2	100.0	S	61.3	100.0	81.5	18.5	100.0	69.7	S	100.0	S	S
Social service-related occupation	100.0	57.2	42.8	100.0	S	S	100.0	69.8	30.2	100.0	44.9	55.1	100.0	S	S
Other non-S&E occupation	100.0	69.3	30.7	100.0	78.5	S	100.0	70.4	29.6	100.0	69.7	30.3	100.0	S	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). 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.