

TABLE 30. Doctoral scientists and engineers, by occupation and race/ethnicity: 2003

| Occupation | Total | American Indian/ Alaskan Native | Asian | Black | Hispanic | White | Other/ unknown race/ ethnicity ^a |
|--|---------|--|---------|--------|----------|---------|--|
| | | | | | | | |
| All occupations | 685,010 | 4,460 | 107,970 | 18,950 | 17,020 | 535,500 | 1,100 |
| Science occupations | 405,330 | 2,980 | 58,660 | 10,700 | 11,130 | 321,160 | 710 |
| Biological, agricultural, and other life scientist | 120,900 | 810 | 20,360 | 2,620 | 3,270 | 93,590 | 260 |
| Agricultural/food scientist | 9,930 | 120 | 1,340 | 250 | 360 | 7,860 | S |
| Biochemist/biophysicist | 16,140 | 50 | 4,500 | 150 | 250 | 11,140 | S |
| Biological scientist | 21,430 | 140 | 3,790 | 400 | 600 | 16,410 | 80 |
| Forestry/conservation scientist | 1,700 | S | S | S | S | 1,600 | S |
| Medical scientist | 32,170 | 120 | 6,800 | 740 | 860 | 23,640 | S |
| Postsecondary teacher, agricultural/other natural sciences | 5,270 | 100 | 300 | 130 | 210 | 4,540 | S |
| Postsecondary teacher, biological sciences | 27,990 | 180 | 2,210 | 810 | 810 | 23,880 | 100 |
| Other biological/agricultural/life scientist | 6,250 | 60 | 1,380 | 130 | 150 | 4,520 | S |
| Computer and information scientist | 38,460 | 190 | 12,540 | 760 | 660 | 24,260 | 50 |
| Computer/information scientist | 30,210 | 150 | 10,630 | 500 | 430 | 18,450 | S |
| Postsecondary teacher, computer science | 8,250 | S | 1,900 | 260 | 230 | 5,810 | S |
| Mathematical scientist | 26,080 | S | 5,160 | 640 | 730 | 19,510 | S |
| Mathematical scientist | 10,250 | S | 2,650 | 300 | 280 | 7,000 | S |
| Postsecondary teacher, mathematics/statistics | 15,830 | S | 2,500 | 340 | 450 | 12,510 | S |
| Physical scientist | 87,590 | 480 | 13,500 | 1,270 | 1,980 | 70,210 | 160 |
| Chemist, except biochemist | 29,400 | 200 | 7,020 | 460 | 570 | 21,090 | 50 |
| Earth/atmospheric/ocean scientist | 10,930 | 60 | 1,240 | S | 300 | 9,240 | S |
| Physicist/astronomer | 15,710 | S | 2,420 | 120 | 290 | 12,850 | S |
| Postsecondary teacher, chemistry | 13,140 | 70 | 900 | 370 | 400 | 11,390 | S |
| Postsecondary teacher, physics | 9,110 | S | 1,110 | 120 | 250 | 7,570 | S |
| Postsecondary teacher, other physical sciences | 6,820 | 80 | 360 | 70 | 110 | 6,160 | S |
| Other physical scientist | 2,470 | S | 450 | 80 | S | 1,900 | S |
| Psychologist | 74,060 | 850 | 1,910 | 2,680 | 2,630 | 65,840 | 140 |
| Psychologist | 54,540 | 570 | 1,340 | 1,820 | 1,790 | 48,910 | 110 |
| Postsecondary teacher, psychology | 19,520 | 280 | 570 | 870 | 840 | 16,920 | S |
| Social scientist | 58,250 | 620 | 5,200 | 2,730 | 1,860 | 47,770 | 90 |
| Economist | 8,790 | 80 | 1,280 | 230 | 340 | 6,850 | S |
| Political scientist | 2,000 | 50 | 180 | 70 | 120 | 1,570 | S |
| Postsecondary teacher, economics | 9,690 | 70 | 1,450 | 420 | 120 | 7,620 | S |
| Postsecondary teacher, political science | 9,470 | 70 | 410 | 610 | 240 | 8,140 | S |
| Postsecondary teacher, sociology | 8,320 | 70 | 470 | 600 | 250 | 6,930 | S |
| Postsecondary teacher, other social sciences | 10,030 | 220 | 880 | 320 | 490 | 8,090 | S |
| Sociologist/anthropologist | 5,130 | S | 170 | 200 | 150 | 4,550 | S |
| Other social scientist | 4,820 | S | 350 | 270 | 150 | 4,010 | S |
| Engineering occupations | 89,160 | 250 | 26,270 | 1,730 | 1,860 | 58,900 | 150 |
| Aerospace/aeronautical/astronautical engineer | 5,110 | S | 890 | 70 | S | 4,080 | S |
| Chemical engineer | 8,430 | S | 2,720 | 180 | 230 | 5,290 | S |
| Civil/architectural/sanitary engineer | 4,430 | S | 1,390 | 80 | 180 | 2,760 | S |
| Electrical engineer | 18,430 | S | 7,110 | 270 | 250 | 10,720 | S |
| Materials/metallurgical engineer | 1,580 | S | 530 | S | S | 1,010 | S |
| Mechanical engineer | 10,000 | S | 3,860 | 80 | 120 | 5,910 | S |
| Postsecondary teacher, engineering | 19,600 | 90 | 3,900 | 850 | 610 | 14,120 | S |
| Other engineer | 21,570 | S | 5,880 | 200 | 410 | 15,000 | 60 |
| Science and engineering-related occupations | 73,970 | 450 | 10,270 | 2,240 | 1,380 | 59,490 | 150 |
| Health-related occupation, except postsecondary teacher | 19,420 | 140 | 2,820 | 780 | 470 | 15,130 | 70 |
| Postsecondary teacher, health and related sciences | 19,560 | 130 | 1,890 | 810 | 440 | 16,270 | S |
| S&E manager | 25,980 | 110 | 3,800 | 440 | 350 | 21,250 | S |
| S&E precollege teacher | 3,800 | 50 | 240 | 210 | 80 | 3,220 | S |

TABLE 30. Doctoral scientists and engineers, by occupation and race/ethnicity: 2003

| Occupation | Total | American Indian/ Alaskan Native | Asian | Black | Hispanic | White | Other/ unknown race/ ethnicity ^a | |
|--|---------|--|---------|-------|----------|--------|--|--|
| S&E technician/technologist | 4,780 | S | 1,430 | S | S | 3,300 | S | |
| Other S&E-related occupation | 440 | S | 90 | S | S | 310 | S | |
| Non-science and engineering occupations | 116,540 | 790 | 12,770 | 4,280 | 2,650 | 95,950 | 100 | |
| Arts/humanities-related occupation | 6,280 | S | 540 | 150 | 80 | 5,510 | S | |
| Management-related occupation | 17,630 | 100 | 2,990 | 580 | 380 | 13,570 | S | |
| Non-S&E manager | 51,680 | 240 | 5,450 | 1,950 | 1,110 | 42,910 | S | |
| Non-S&E postsecondary teacher | 13,620 | 100 | 1,180 | 740 | 520 | 11,070 | S | |
| Non-S&E precollege/other teacher | 3,100 | S | 190 | 120 | 100 | 2,660 | S | |
| Sales/marketing occupation | 9,130 | 120 | 1,380 | 120 | 160 | 7,350 | S | |
| Social service-related occupation | 3,920 | 90 | 290 | 290 | 140 | 3,100 | S | |
| Other non-S&E occupation | 10,650 | 130 | 760 | 330 | 160 | 9,250 | S | |
| | | | Percent | | | | | |
| All occupations | 100.0 | 0.7 | 15.8 | 2.8 | 2.5 | 78.2 | 0.2 | |
| Science occupations | 100.0 | 0.7 | 14.5 | 2.6 | 2.7 | 79.2 | 0.2 | |
| Biological, agricultural, and other life scientist | 100.0 | 0.7 | 16.8 | 2.2 | 2.7 | 77.4 | 0.2 | |
| Agricultural/food scientist | 100.0 | 1.2 | 13.5 | 2.6 | 3.6 | 79.2 | S | |
| Biochemist/biophysicist | 100.0 | 0.3 | 27.9 | 0.9 | 1.6 | 69.0 | S | |
| Biological scientist | 100.0 | 0.7 | 17.7 | 1.9 | 2.8 | 76.5 | 0.4 | |
| Forestry/conservation scientist | 100.0 | S | S | S | S | 93.9 | S | |
| Medical scientist | 100.0 | 0.4 | 21.1 | 2.3 | 2.7 | 73.5 | S | |
| Postsecondary teacher, agricultural/other natural sciences | 100.0 | 2.0 | 5.6 | 2.4 | 3.9 | 86.0 | S | |
| Postsecondary teacher, biological sciences | 100.0 | 0.6 | 7.9 | 2.9 | 2.9 | 85.3 | 0.4 | |
| Other biological/agricultural/life scientist | 100.0 | 1.0 | 22.1 | 2.1 | 2.5 | 72.3 | S | |
| Computer and information scientist | 100.0 | 0.5 | 32.6 | 2.0 | 1.7 | 63.1 | 0.1 | |
| Computer/information scientist | 100.0 | 0.5 | 35.2 | 1.6 | 1.4 | 61.1 | S | |
| Postsecondary teacher, computer science | 100.0 | S | 23.1 | 3.2 | 2.7 | 70.4 | S | |
| Mathematical scientist | 100.0 | S | 19.8 | 2.4 | 2.8 | 74.8 | S | |
| Mathematical scientist | 100.0 | S | 25.9 | 2.9 | 2.8 | 68.3 | S | |
| Postsecondary teacher, mathematics/statistics | 100.0 | S | 15.8 | 2.1 | 2.8 | 79.0 | S | |
| Physical scientist | 100.0 | 0.5 | 15.4 | 1.5 | 2.3 | 80.2 | 0.2 | |
| Chemist, except biochemist | 100.0 | 0.7 | 23.9 | 1.6 | 2.0 | 71.7 | 0.2 | |
| Earth/atmospheric/ocean scientist | 100.0 | 0.5 | 11.4 | S | 2.8 | 84.5 | S | |
| Physicist/astronomer | 100.0 | S | 15.4 | 0.8 | 1.8 | 81.8 | S | |
| Postsecondary teacher, chemistry | 100.0 | 0.5 | 6.8 | 2.8 | 3.0 | 86.7 | S | |
| Postsecondary teacher, physics | 100.0 | S | 12.2 | 1.4 | 2.8 | 83.1 | S | |
| Postsecondary teacher, other physical sciences | 100.0 | 1.2 | 5.2 | 1.0 | 1.7 | 90.3 | S | |
| Other physical scientist | 100.0 | S | 18.2 | 3.1 | S | 76.8 | S | |
| Psychologist | 100.0 | 1.1 | 2.6 | 3.6 | 3.6 | 88.9 | 0.2 | |
| Psychologist | 100.0 | 1.0 | 2.5 | 3.3 | 3.3 | 89.7 | 0.2 | |
| Postsecondary teacher, psychology | 100.0 | 1.4 | 2.9 | 4.4 | 4.3 | 86.7 | S | |
| Social scientist | 100.0 | 1.1 | 8.9 | 4.7 | 3.2 | 82.0 | 0.2 | |
| Economist | 100.0 | 0.9 | 14.6 | 2.6 | 3.8 | 78.0 | S | |
| Political scientist | 100.0 | 2.7 | 9.3 | 3.7 | 6.0 | 78.4 | S | |
| Postsecondary teacher, economics | 100.0 | 0.7 | 15.0 | 4.4 | 1.2 | 78.7 | S | |
| Postsecondary teacher, political science | 100.0 | 0.7 | 4.3 | 6.4 | 2.6 | 85.9 | S | |
| Postsecondary teacher, sociology | 100.0 | 0.8 | 5.6 | 7.2 | 3.0 | 83.3 | S | |
| Postsecondary teacher, other social sciences | 100.0 | 2.2 | 8.8 | 3.2 | 4.9 | 80.6 | S | |
| Sociologist/anthropologist | 100.0 | S | 3.3 | 4.0 | 3.0 | 88.7 | S | |
| Other social scientist | 100.0 | S | 7.3 | 5.7 | 3.0 | 83.2 | S | |
| Engineering occupations | 100.0 | 0.3 | 29.5 | 1.9 | 2.1 | 66.1 | 0.2 | |
| Aerospace/aeronautical/astronautical engineer | 100.0 | S | 17.4 | 1.4 | S | 79.9 | S | |

TABLE 30. Doctoral scientists and engineers, by occupation and race/ethnicity: 2003

| Occupation | Total | American Indian/ Alaskan Native | Asian | Black | Hispanic | White | Other/ unknown race/ ethnicity ^a |
|---|-------|--|-------|-------|----------|-------|--|
| Chemical engineer | 100.0 | S | 32.2 | 2.1 | 2.7 | 62.7 | S |
| Civil/architectural/sanitary engineer | 100.0 | S | 31.4 | 1.7 | 4.0 | 62.3 | S |
| Electrical engineer | 100.0 | S | 38.6 | 1.5 | 1.4 | 58.2 | S |
| Materials/metallurgical engineer | 100.0 | S | 33.7 | S | S | 64.0 | S |
| Mechanical engineer | 100.0 | S | 38.6 | 0.8 | 1.2 | 59.1 | S |
| Postsecondary teacher, engineering | 100.0 | 0.4 | 19.9 | 4.3 | 3.1 | 72.0 | S |
| Other engineer | 100.0 | S | 27.3 | 0.9 | 1.9 | 69.5 | 0.3 |
| Science and engineering-related occupations | 100.0 | 0.6 | 13.9 | 3.0 | 1.9 | 80.4 | 0.2 |
| Health-related occupation, except postsecondary teacher | 100.0 | 0.7 | 14.5 | 4.0 | 2.4 | 77.9 | 0.4 |
| Postsecondary teacher, health and related sciences | 100.0 | 0.6 | 9.7 | 4.1 | 2.3 | 83.2 | S |
| S&E manager | 100.0 | 0.4 | 14.6 | 1.7 | 1.4 | 81.8 | S |
| S&E precollege teacher | 100.0 | 1.3 | 6.4 | 5.4 | 2.1 | 84.8 | S |
| S&E technician/technologist | 100.0 | S | 29.8 | S | S | 69.0 | S |
| Other S&E-related occupation | 100.0 | S | 20.7 | S | S | 71.0 | S |
| Non-science and engineering occupations | 100.0 | 0.7 | 11.0 | 3.7 | 2.3 | 82.3 | 0.1 |
| Arts/humanities-related occupation | 100.0 | S | 8.6 | 2.3 | 1.3 | 87.7 | S |
| Management-related occupation | 100.0 | 0.6 | 16.9 | 3.3 | 2.1 | 77.0 | S |
| Non-S&E manager | 100.0 | 0.5 | 10.5 | 3.8 | 2.2 | 83.0 | S |
| Non-S&E postsecondary teacher | 100.0 | 0.7 | 8.7 | 5.4 | 3.8 | 81.3 | S |
| Non-S&E precollege/other teacher | 100.0 | S | 6.0 | 3.9 | 3.1 | 85.8 | S |
| Sales/marketing occupation | 100.0 | 1.3 | 15.1 | 1.3 | 1.7 | 80.5 | S |
| Social service-related occupation | 100.0 | 2.4 | 7.5 | 7.5 | 3.5 | 79.2 | S |
| Other non-S&E occupation | 100.0 | 1.2 | 7.1 | 3.1 | 1.5 | 86.9 | 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. Excludes estimated 291 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.