

TABLE 44

U.S. residing employed doctoral scientists and engineers, by sector of employment, broad occupation, ethnicity, and race: 2019

(Number and SE)

| Employment sector and occupation | All employed | | Hispanic or Latino ^a | | Not Hispanic or Latino ^b | | | | | | | | | |
|--|--------------|-------|---------------------------------|-----|-------------------------------------|-----|---------|-------|---------------------------|-----|---------|-------|-------------------------|-----|
| | | | | | American Indian or Alaska Native | | Asian | | Black or African American | | White | | Other race ^c | |
| | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE |
| All sectors | 857,200 | 1,975 | 37,250 | 550 | 1,300 | 125 | 213,350 | 1,325 | 31,100 | 400 | 562,350 | 1,750 | 11,950 | 400 |
| Science occupations | 492,750 | 2,500 | 22,750 | 475 | 600 | 100 | 113,550 | 1,500 | 16,350 | 400 | 332,600 | 2,075 | 6,900 | 300 |
| Biological, agricultural, and other life scientist | 156,650 | 1,525 | 7,300 | 300 | 100 | 25 | 39,550 | 900 | 4,450 | 225 | 102,750 | 1,250 | 2,500 | 175 |
| Computer and information scientist | 63,000 | 1,100 | 1,700 | 150 | D | D | 28,950 | 850 | 1,050 | 125 | 30,700 | 725 | 650 | 100 |
| Mathematical scientist | 41,400 | 750 | 1,650 | 150 | D | D | 14,500 | 575 | 1,100 | 125 | 23,700 | 625 | 450 | 75 |
| Physical scientist | 84,550 | 1,275 | 3,250 | 200 | 50 | 25 | 17,550 | 700 | 2,300 | 200 | 60,350 | 1,025 | 1,050 | 125 |
| Psychologist | 77,600 | 950 | 4,550 | 225 | 200 | 75 | 4,400 | 350 | 3,450 | 225 | 63,850 | 950 | 1,150 | 150 |
| Social scientist | 69,500 | 1,025 | 4,300 | 250 | 250 | 75 | 8,600 | 425 | 4,050 | 250 | 51,250 | 900 | 1,100 | 125 |
| Engineering occupations | 120,650 | 1,375 | 4,700 | 275 | 100 | 50 | 49,650 | 1,150 | 2,900 | 175 | 61,850 | 1,125 | 1,400 | 200 |
| S&E-related occupations | 92,350 | 1,475 | 3,700 | 225 | 200 | 50 | 22,000 | 850 | 4,150 | 225 | 60,950 | 1,125 | 1,300 | 125 |
| Non-S&E occupations | 151,500 | 1,650 | 6,050 | 300 | 400 | 75 | 28,150 | 850 | 7,650 | 350 | 106,950 | 1,525 | 2,350 | 175 |
| 4-year educational institution ^d | 344,350 | 2,325 | 16,350 | 400 | 600 | 100 | 68,950 | 1,300 | 13,750 | 400 | 240,100 | 1,850 | 4,600 | 250 |
| Science occupations | 230,400 | 1,950 | 11,400 | 350 | 300 | 75 | 43,800 | 975 | 8,200 | 300 | 163,450 | 1,700 | 3,200 | 225 |
| Biological, agricultural, and other life scientist | 76,650 | 1,200 | 3,950 | 225 | 50 | 25 | 17,250 | 600 | 1,900 | 150 | 52,400 | 1,075 | 1,150 | 150 |
| Computer and information scientist | 14,050 | 600 | 400 | 75 | D | D | 5,100 | 400 | 350 | 75 | 8,050 | 400 | 150 | 75 |
| Mathematical scientist | 21,600 | 600 | 1,000 | 125 | D | D | 5,850 | 375 | 600 | 100 | 14,050 | 450 | 150 | 50 |
| Physical scientist | 42,000 | 925 | 1,550 | 150 | * | * | 8,100 | 575 | 1,000 | 125 | 30,750 | 775 | 550 | 100 |
| Psychologist | 25,900 | 700 | 1,450 | 150 | 50 | 25 | 2,250 | 250 | 1,300 | 150 | 20,400 | 650 | 450 | 100 |
| Social scientist | 50,200 | 950 | 3,100 | 200 | 200 | 75 | 5,300 | 325 | 3,000 | 250 | 37,850 | 850 | 750 | 100 |
| Engineering occupations | 35,900 | 850 | 1,600 | 150 | 50 | 25 | 12,700 | 675 | 1,100 | 150 | 20,100 | 725 | 350 | 75 |
| S&E-related occupations | 35,800 | 925 | 1,400 | 125 | 100 | 50 | 7,150 | 425 | 1,700 | 125 | 24,950 | 750 | 450 | 100 |
| Non-S&E occupations | 42,300 | 850 | 1,950 | 150 | 150 | 50 | 5,250 | 400 | 2,700 | 200 | 31,600 | 775 | 600 | 100 |
| Other educational institution ^e | 30,900 | 900 | 1,900 | 175 | 100 | 50 | 3,150 | 400 | 2,450 | 200 | 22,700 | 725 | 550 | 100 |
| Science occupations | 18,100 | 700 | 1,150 | 150 | S | S | 1,850 | 275 | 1,500 | 175 | 13,300 | 600 | 300 | 75 |
| Biological, agricultural, and other life scientist | 4,600 | 375 | 200 | 50 | D | D | 450 | 125 | 300 | 75 | 3,550 | 325 | 100 | 50 |
| Computer and information scientist | 550 | 100 | D | D | D | D | S | S | D | D | 400 | 100 | D | D |
| Mathematical scientist | 1,350 | 175 | 100 | 25 | D | D | 150 | 50 | 50 | 25 | 1,000 | 175 | S | S |
| Physical scientist | 4,350 | 325 | 300 | 75 | D | D | 700 | 150 | 300 | 75 | 3,100 | 300 | D | D |
| Psychologist | 4,700 | 300 | 250 | 50 | D | D | 150 | 75 | 550 | 150 | 3,600 | 250 | 50 | 50 |
| Social scientist | 2,550 | 275 | 300 | 100 | D | D | 250 | 125 | 300 | 100 | 1,650 | 200 | S | S |
| Engineering occupations | 450 | 150 | S | S | D | D | D | D | D | D | 250 | 75 | D | D |
| S&E-related occupations | 5,950 | 400 | 300 | 75 | D | D | 450 | 175 | 400 | 75 | 4,650 | 350 | 100 | 50 |
| Non-S&E occupations | 6,400 | 325 | 400 | 75 | 50 | 25 | 700 | 150 | 550 | 100 | 4,550 | 325 | 100 | 50 |
| Private, for profit ^f | 306,300 | 2,500 | 11,150 | 400 | 300 | 75 | 109,300 | 1,525 | 7,300 | 325 | 174,200 | 1,900 | 4,000 | 275 |
| Science occupations | 142,200 | 1,800 | 5,450 | 300 | 150 | 50 | 51,100 | 1,125 | 3,200 | 225 | 80,650 | 1,400 | 1,650 | 175 |
| Biological, agricultural, and other life scientist | 42,900 | 1,175 | 1,750 | 175 | D | D | 14,750 | 725 | 1,150 | 150 | 24,700 | 850 | 550 | 100 |
| Computer and information scientist | 41,750 | 1,075 | 1,150 | 125 | D | D | 21,500 | 825 | 500 | 100 | 18,250 | 650 | 350 | 75 |
| Mathematical scientist | 13,700 | 525 | 450 | 75 | D | D | 7,050 | 475 | 200 | 50 | 5,750 | 375 | 200 | 75 |

TABLE 44

U.S. residing employed doctoral scientists and engineers, by sector of employment, broad occupation, ethnicity, and race: 2019

(Number and SE)

| Employment sector and occupation | All employed | | Hispanic or Latino ^a | | Not Hispanic or Latino ^b | | | | | | | | | |
|--|--------------|-------|---------------------------------|-----|-------------------------------------|----|--------|-----|---------------------------|-----|--------|-------|-------------------------|-----|
| | | | | | American Indian or Alaska Native | | Asian | | Black or African American | | White | | Other race ^c | |
| | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE |
| Physical scientist | 22,650 | 675 | 750 | 100 | 50 | 25 | 6,050 | 425 | 600 | 125 | 14,950 | 575 | 300 | 75 |
| Psychologist | 16,350 | 575 | 1,200 | 175 | D | D | 700 | 175 | 550 | 125 | 13,650 | 525 | 150 | 75 |
| Social scientist | 4,900 | 325 | 200 | 75 | D | D | 1,050 | 150 | 200 | 75 | 3,300 | 275 | 100 | 50 |
| Engineering occupations | 67,300 | 1,325 | 2,350 | 175 | 50 | 25 | 31,350 | 950 | 1,250 | 125 | 31,450 | 925 | 850 | 175 |
| S&E-related occupations | 29,000 | 875 | 1,100 | 150 | 50 | 25 | 9,400 | 600 | 750 | 100 | 17,300 | 650 | 450 | 75 |
| Non-S&E occupations | 67,800 | 1,175 | 2,250 | 175 | 50 | 25 | 17,500 | 650 | 2,100 | 200 | 44,800 | 1,100 | 1,050 | 150 |
| Private, nonprofit | 55,900 | 1,125 | 2,350 | 175 | 50 | 25 | 11,150 | 525 | 2,400 | 275 | 39,050 | 1,025 | 850 | 125 |
| Science occupations | 29,850 | 775 | 1,250 | 150 | D | D | 5,950 | 350 | 850 | 150 | 21,300 | 725 | 500 | 100 |
| Biological, agricultural, and other life scientist | 10,650 | 475 | 400 | 100 | D | D | 3,050 | 325 | 150 | 50 | 6,850 | 350 | 200 | 75 |
| Computer and information scientist | 2,600 | 275 | 50 | 25 | D | D | 900 | 200 | S | S | 1,550 | 175 | S | S |
| Mathematical scientist | 1,900 | 200 | 50 | 25 | D | D | 550 | 125 | S | S | 1,200 | 150 | D | D |
| Physical scientist | 4,400 | 350 | 150 | 50 | D | D | 750 | 150 | S | S | 3,350 | 300 | 50 | 25 |
| Psychologist | 6,600 | 400 | 450 | 100 | D | D | 400 | 100 | 200 | 75 | 5,450 | 400 | 100 | 50 |
| Social scientist | 3,650 | 300 | 200 | 50 | D | D | 300 | 100 | 200 | 75 | 2,900 | 275 | 50 | 50 |
| Engineering occupations | 4,550 | 350 | 150 | 50 | D | D | 1,650 | 225 | 100 | 50 | 2,550 | 275 | 50 | 25 |
| S&E-related occupations | 9,950 | 500 | 450 | 75 | * | * | 2,250 | 275 | 500 | 100 | 6,550 | 425 | 150 | 50 |
| Non-S&E occupations | 11,600 | 550 | 500 | 100 | D | D | 1,300 | 200 | 950 | 200 | 8,600 | 450 | 200 | 50 |
| Federal government | 50,150 | 1,025 | 2,500 | 175 | 100 | 50 | 8,550 | 525 | 2,550 | 225 | 35,450 | 825 | 950 | 125 |
| Science occupations | 33,300 | 850 | 1,750 | 150 | S | S | 5,600 | 400 | 1,400 | 150 | 23,850 | 750 | 700 | 125 |
| Biological, agricultural, and other life scientist | 14,550 | 550 | 850 | 100 | D | D | 2,800 | 275 | 700 | 100 | 9,800 | 450 | 350 | 75 |
| Computer and information scientist | 1,400 | 175 | 50 | 25 | D | D | 350 | 100 | S | S | 900 | 150 | D | D |
| Mathematical scientist | 1,850 | 200 | 50 | 25 | D | D | 550 | 125 | 100 | 50 | 1,100 | 150 | 50 | 25 |
| Physical scientist | 6,800 | 375 | 350 | 100 | D | D | 950 | 150 | 200 | 50 | 5,200 | 350 | 100 | 50 |
| Psychologist | 5,200 | 425 | 200 | 75 | D | D | 200 | 75 | 300 | 75 | 4,350 | 400 | 150 | 75 |
| Social scientist | 3,500 | 300 | 200 | 75 | D | D | 700 | 175 | 50 | 25 | 2,500 | 225 | * | * |
| Engineering occupations | 6,450 | 375 | 250 | 75 | D | D | 1,450 | 250 | 200 | 50 | 4,450 | 325 | 50 | 25 |
| S&E-related occupations | 4,750 | 350 | 250 | 75 | D | D | 900 | 175 | 400 | 75 | 3,100 | 275 | 50 | 25 |
| Non-S&E occupations | 5,650 | 400 | 250 | 75 | D | D | 650 | 150 | 500 | 100 | 4,050 | 300 | S | S |
| State or local government | 18,850 | 750 | 900 | 125 | 50 | 25 | 3,900 | 375 | 1,450 | 175 | 12,300 | 625 | 250 | 75 |
| Science occupations | 10,400 | 525 | 550 | 100 | D | D | 1,850 | 250 | 650 | 100 | 7,200 | 475 | 150 | 50 |
| Biological, agricultural, and other life scientist | 3,050 | 275 | 100 | 50 | D | D | 600 | 125 | 200 | 75 | 2,100 | 225 | S | S |
| Computer and information scientist | 600 | 150 | D | D | D | D | 150 | 75 | * | * | 400 | 125 | D | D |
| Mathematical scientist | 500 | 125 | S | S | D | D | 150 | 75 | D | D | 300 | 100 | D | D |
| Physical scientist | 2,000 | 225 | 50 | 50 | D | D | 500 | 150 | 50 | 50 | 1,300 | 175 | S | S |
| Psychologist | 2,750 | 300 | 250 | 100 | D | D | 200 | 75 | 250 | 75 | 2,050 | 250 | D | D |
| Social scientist | 1,550 | 225 | S | S | D | D | 300 | 100 | 100 | 50 | 1,050 | 200 | D | D |
| Engineering occupations | 2,100 | 250 | 100 | 50 | D | D | 950 | 200 | 200 | 75 | 850 | 175 | D | D |
| S&E-related occupations | 2,900 | 275 | 100 | 50 | D | D | 800 | 175 | 350 | 125 | 1,600 | 200 | 50 | 25 |
| Non-S&E occupations | 3,400 | 300 | 150 | 50 | D | D | 300 | 100 | 250 | 75 | 2,600 | 275 | 50 | 25 |
| Self-employed ^d | 40,750 | 1,100 | 1,450 | 150 | 50 | 25 | 4,400 | 375 | 800 | 100 | 33,450 | 975 | 600 | 125 |
| Science occupations | 23,250 | 825 | 900 | 125 | D | D | 1,600 | 225 | 400 | 100 | 20,050 | 725 | 300 | 100 |

TABLE 44

U.S. residing employed doctoral scientists and engineers, by sector of employment, broad occupation, ethnicity, and race: 2019

(Number and SE)

| Employment sector and occupation | All employed | | Hispanic or Latino ^a | | Not Hispanic or Latino ^b | | | | | | | | | |
|--|--------------|-----|---------------------------------|-----|-------------------------------------|----|--------|-----|---------------------------|----|--------|-----|-------------------------|----|
| | | | | | American Indian or Alaska Native | | Asian | | Black or African American | | White | | Other race ^c | |
| | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE |
| Biological, agricultural, and other life scientist | 3,350 | 275 | 100 | 50 | D | D | 400 | 125 | 50 | 25 | 2,800 | 275 | S | S |
| Computer and information scientist | 1,250 | 200 | 50 | 25 | D | D | 250 | 75 | D | D | 900 | 150 | D | D |
| Mathematical scientist | 300 | 75 | D | D | D | D | 100 | 50 | D | D | 200 | 75 | D | D |
| Physical scientist | 1,300 | 150 | S | S | D | D | 200 | 75 | D | D | 1,050 | 150 | D | D |
| Psychologist | 15,550 | 700 | 700 | 125 | D | D | 550 | 150 | 300 | 75 | 13,850 | 625 | 250 | 75 |
| Social scientist | 1,550 | 200 | 50 | 25 | D | D | 150 | 75 | 50 | 25 | 1,250 | 200 | D | D |
| Engineering occupations | 2,150 | 275 | 100 | 50 | D | D | 400 | 150 | D | D | 1,550 | 250 | D | D |
| S&E-related occupations | 2,750 | 225 | S | S | D | D | 500 | 125 | 50 | 25 | 2,100 | 200 | D | D |
| Non-S&E occupations | 12,600 | 650 | 350 | 75 | D | D | 1,900 | 250 | 350 | 75 | 9,750 | 600 | 200 | 50 |
| Other sector ^h | 10,050 | 550 | 550 | 100 | D | D | 3,850 | 350 | 400 | 75 | 5,150 | 400 | 100 | 50 |
| Science occupations | 5,250 | 425 | 350 | 75 | D | D | 1,850 | 250 | 150 | 50 | 2,800 | 325 | 50 | 25 |
| Biological, agricultural, and other life scientist | 1,000 | 150 | 50 | 25 | D | D | 350 | 100 | 50 | 25 | 550 | 100 | D | D |
| Computer and information scientist | 850 | 175 | D | D | D | D | 550 | 150 | D | D | 250 | 125 | D | D |
| Mathematical scientist | 250 | 75 | D | D | D | D | S | S | S | S | 100 | 50 | D | D |
| Physical scientist | 1,000 | 175 | D | D | D | D | 350 | 100 | D | D | 650 | 150 | D | D |
| Psychologist | 500 | 150 | D | D | D | D | D | D | D | D | 450 | 150 | D | D |
| Social scientist | 1,600 | 250 | 250 | 75 | D | D | 550 | 175 | 50 | 25 | 750 | 175 | D | D |
| Engineering occupations | 1,750 | 275 | 100 | 50 | D | D | 950 | 225 | S | S | 600 | 150 | D | D |
| S&E-related occupations | 1,300 | 225 | 50 | 25 | D | D | 550 | 150 | 50 | 25 | 700 | 150 | D | D |
| Non-S&E occupations | 1,800 | 250 | 100 | 50 | D | D | 500 | 150 | 150 | 50 | 1,000 | 175 | D | D |

* = suppressed when population estimate < 25. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering; SE = standard error.

^a Hispanic or Latino may be of any race.

^b American Indian or Alaska Native, Asian, Black or African American, and White are single race.

^c Other race includes Native Hawaiian or Other Pacific Islander and persons reporting more than one race who are not of Hispanic or Latino ethnicity.

^d Includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes.

^e Includes 2-year colleges, community colleges, or technical institutes, and other precollege institutions.

^f Includes those self-employed in an incorporated business.

^g Self-employed or business owner in a nonincorporated business.

^h Includes employers not broken out separately.

Note(s):

Numbers are rounded to nearest 50. Detail may not add to total because of rounding. Standard errors are rounded up to nearest 25. Residence location is based on reported living location on 1 February 2019.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2019.