

TABLE 39

U.S. residing employed doctoral scientists and engineers, by occupation and citizenship status: 2023

(Number and SE)

| Occupation | All employed | | U.S. citizen | | | | | | Non-U.S. citizen | | | | | |
|--|--------------|-------|--------------|-------|-------------|-------|-------------|-------|------------------|-------|--------------------|-------|--------------------|-----|
| | | | Total | | Native born | | Naturalized | | Total | | Permanent resident | | Temporary resident | |
| | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE |
| All occupations | 908,700 | 2,300 | 774,700 | 2,225 | 562,450 | 1,725 | 212,250 | 1,775 | 134,000 | 1,550 | 94,750 | 1,575 | 39,250 | 775 |
| Science occupations | 489,300 | 2,625 | 406,950 | 2,450 | 301,100 | 1,975 | 105,800 | 1,550 | 82,350 | 1,375 | 55,950 | 1,325 | 26,400 | 675 |
| Biological, agricultural, and other life scientists | 168,150 | 1,575 | 143,300 | 1,475 | 110,500 | 1,325 | 32,800 | 875 | 24,850 | 775 | 16,550 | 675 | 8,300 | 375 |
| Agricultural, food scientists | 11,250 | 475 | 9,250 | 450 | 6,700 | 375 | 2,550 | 275 | 2,000 | 200 | 1,400 | 175 | 600 | 100 |
| Biochemists, biophysicists | 17,100 | 575 | 12,300 | 525 | 9,000 | 425 | 3,300 | 325 | 4,800 | 450 | 2,850 | 350 | 1,950 | 250 |
| Biological scientists | 30,000 | 700 | 25,650 | 675 | 20,950 | 600 | 4,700 | 350 | 4,300 | 375 | 2,600 | 300 | 1,700 | 200 |
| Forestry, conservation scientists | 2,900 | 225 | 2,800 | 225 | 2,550 | 200 | 250 | 100 | 100 | 50 | 50 | 25 | S | S |
| Medical scientists | 46,600 | 975 | 40,900 | 950 | 30,300 | 800 | 10,650 | 600 | 5,700 | 375 | 3,700 | 325 | 2,000 | 200 |
| Postsecondary teachers, agricultural, other natural sciences | 5,100 | 325 | 4,400 | 300 | 3,550 | 250 | 800 | 150 | 750 | 150 | 550 | 125 | 150 | 75 |
| Postsecondary teachers, biological sciences | 33,000 | 875 | 30,750 | 850 | 25,400 | 750 | 5,350 | 475 | 2,250 | 300 | 1,950 | 275 | 250 | 100 |
| Other biological, agricultural, life scientists | 22,250 | 750 | 17,250 | 675 | 12,050 | 500 | 5,200 | 425 | 5,000 | 400 | 3,450 | 375 | 1,550 | 200 |
| Computer and information scientists | 76,900 | 1,250 | 53,750 | 1,150 | 28,600 | 725 | 25,150 | 850 | 23,150 | 750 | 16,000 | 700 | 7,150 | 350 |
| Computer and information scientists | 66,200 | 1,300 | 45,850 | 1,075 | 24,550 | 650 | 21,350 | 800 | 20,350 | 700 | 13,850 | 625 | 6,500 | 350 |
| Postsecondary teachers, computer science | 10,700 | 525 | 7,900 | 500 | 4,100 | 325 | 3,850 | 400 | 2,800 | 275 | 2,150 | 275 | 650 | 100 |
| Mathematical scientists | 48,650 | 1,000 | 37,000 | 950 | 23,300 | 725 | 13,700 | 575 | 11,650 | 500 | 7,650 | 450 | 3,950 | 300 |
| Mathematical scientists | 30,100 | 800 | 21,550 | 750 | 13,250 | 525 | 8,300 | 475 | 8,500 | 425 | 5,500 | 400 | 3,050 | 275 |
| Postsecondary teachers, mathematics, statistics | 18,550 | 675 | 15,450 | 625 | 10,050 | 475 | 5,400 | 375 | 3,100 | 300 | 2,200 | 250 | 950 | 175 |
| Physical scientists | 88,350 | 1,325 | 75,300 | 1,175 | 56,700 | 925 | 18,600 | 750 | 13,050 | 600 | 8,900 | 550 | 4,150 | 275 |
| Chemists, except biochemists | 21,850 | 775 | 17,900 | 675 | 12,900 | 600 | 5,000 | 450 | 3,950 | 350 | 2,550 | 325 | 1,400 | 175 |
| Earth, atmospheric, ocean scientists | 13,550 | 550 | 11,400 | 525 | 8,950 | 425 | 2,450 | 275 | 2,150 | 250 | 1,450 | 200 | 700 | 125 |
| Physicists, astronomers | 14,650 | 650 | 12,200 | 600 | 9,250 | 550 | 2,950 | 300 | 2,450 | 300 | 1,300 | 225 | 1,150 | 175 |
| Postsecondary teachers, chemistry | 16,250 | 700 | 14,900 | 650 | 11,450 | 525 | 3,450 | 350 | 1,300 | 300 | 1,100 | 300 | 200 | 75 |
| Postsecondary teachers, physics | 9,350 | 525 | 8,150 | 500 | 5,450 | 375 | 2,700 | 350 | 1,200 | 200 | 1,100 | 200 | S | S |
| Postsecondary teachers, other physical science | 6,750 | 275 | 6,000 | 275 | 4,950 | 225 | 1,050 | 150 | 800 | 125 | 600 | 125 | 200 | 75 |
| Other physical scientists | 5,950 | 400 | 4,750 | 350 | 3,750 | 300 | 1,000 | 175 | 1,200 | 250 | 750 | 200 | 450 | 150 |
| Psychologists | 36,450 | 850 | 35,150 | 850 | 31,650 | 800 | 3,550 | 350 | 1,300 | 175 | 950 | 150 | 350 | 100 |
| Psychologists | 17,550 | 725 | 17,000 | 725 | 15,350 | 675 | 1,650 | 275 | 550 | 125 | 400 | 100 | 150 | 50 |
| Postsecondary teachers, psychology | 18,900 | 675 | 18,150 | 650 | 16,250 | 650 | 1,900 | 250 | 750 | 150 | 550 | 125 | 200 | 100 |
| Social scientists | 70,750 | 1,175 | 62,350 | 1,150 | 50,400 | 950 | 12,000 | 575 | 8,400 | 500 | 5,900 | 425 | 2,500 | 275 |
| Economists | 9,700 | 475 | 7,300 | 400 | 5,400 | 325 | 1,900 | 250 | 2,350 | 275 | 1,300 | 200 | 1,100 | 175 |
| Political scientists | 2,100 | 225 | 1,700 | 200 | 1,350 | 175 | 300 | 100 | 400 | 125 | 350 | 125 | D | D |
| Postsecondary teachers, economics | 10,200 | 475 | 8,500 | 450 | 6,000 | 400 | 2,500 | 300 | 1,700 | 225 | 1,200 | 200 | 500 | 100 |
| Postsecondary teachers, political science | 9,700 | 500 | 8,850 | 500 | 7,100 | 450 | 1,750 | 250 | 850 | 175 | 650 | 175 | 200 | 75 |
| Postsecondary teachers, sociology | 7,450 | 375 | 6,900 | 375 | 5,550 | 300 | 1,350 | 250 | 550 | 150 | 450 | 150 | D | D |

TABLE 39

U.S. residing employed doctoral scientists and engineers, by occupation and citizenship status: 2023

(Number and SE)

| Occupation | All employed | | U.S. citizen | | | | | | Non-U.S. citizen | | | | | |
|--|--------------|-------|--------------|-------|-------------|-------|-------------|-------|------------------|-----|--------------------|-----|--------------------|-----|
| | | | Total | | Native born | | Naturalized | | Total | | Permanent resident | | Temporary resident | |
| | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE |
| Postsecondary teachers, other social sciences | 16,450 | 600 | 15,050 | 550 | 12,900 | 475 | 2,150 | 250 | 1,400 | 200 | 1,100 | 175 | 250 | 75 |
| Sociologists, anthropologists | 3,950 | 275 | 3,750 | 275 | 3,250 | 225 | 500 | 125 | 250 | 75 | 200 | 75 | D | D |
| Other social scientists | 11,200 | 500 | 10,300 | 475 | 8,800 | 450 | 1,500 | 175 | 950 | 175 | 650 | 150 | 300 | 100 |
| Engineering occupations | 127,550 | 1,600 | 97,000 | 1,625 | 53,800 | 1,025 | 43,150 | 1,200 | 30,550 | 825 | 22,050 | 825 | 8,500 | 475 |
| Aerospace, aeronautical, astronautical engineers | 7,500 | 425 | 6,900 | 400 | 4,850 | 350 | 2,050 | 225 | 550 | 125 | 400 | 100 | 150 | 75 |
| Chemical engineers | 8,050 | 500 | 6,050 | 450 | 3,800 | 350 | 2,250 | 300 | 2,000 | 250 | 1,350 | 225 | 650 | 150 |
| Civil, architectural, sanitary engineers | 7,800 | 500 | 5,650 | 375 | 2,550 | 300 | 3,100 | 350 | 2,200 | 250 | 1,500 | 225 | 650 | 125 |
| Electrical engineers | 29,900 | 1,000 | 21,250 | 900 | 10,300 | 550 | 10,950 | 650 | 8,650 | 450 | 6,500 | 425 | 2,150 | 200 |
| Industrial engineers | 1,300 | 225 | 900 | 150 | 700 | 150 | 200 | 50 | 400 | 150 | 150 | 75 | S | S |
| Mechanical engineers | 13,050 | 725 | 9,500 | 625 | 4,650 | 350 | 4,900 | 500 | 3,500 | 400 | 2,400 | 325 | 1,100 | 175 |
| Postsecondary teachers, engineering | 24,750 | 850 | 20,000 | 800 | 10,850 | 575 | 9,100 | 625 | 4,750 | 375 | 3,700 | 350 | 1,050 | 150 |
| Other engineers | 35,300 | 1,075 | 26,800 | 900 | 16,200 | 625 | 10,600 | 600 | 8,500 | 550 | 6,050 | 450 | 2,450 | 275 |
| S&E-related occupations | 135,450 | 1,825 | 126,000 | 1,700 | 98,200 | 1,500 | 27,800 | 950 | 9,450 | 575 | 7,300 | 525 | 2,200 | 225 |
| Health occupations, except postsecondary teachers and managers | 72,400 | 1,300 | 69,300 | 1,275 | 57,400 | 1,225 | 11,900 | 650 | 3,100 | 375 | 2,450 | 350 | 650 | 150 |
| Postsecondary teachers, health and related science | 19,900 | 725 | 18,300 | 675 | 14,500 | 550 | 3,800 | 375 | 1,600 | 225 | 1,200 | 175 | 400 | 100 |
| S&E managers, including health | 33,200 | 1,050 | 29,900 | 950 | 20,000 | 650 | 9,850 | 725 | 3,300 | 375 | 2,500 | 300 | 800 | 175 |
| S&E precollege teachers | 4,500 | 375 | 4,350 | 375 | 3,650 | 350 | 700 | 150 | 150 | 75 | S | S | D | D |
| S&E technicians and technologists | 4,550 | 400 | 3,350 | 325 | 2,250 | 250 | 1,100 | 225 | 1,150 | 200 | 900 | 175 | 300 | 100 |
| Other S&E-related occupations | 950 | 175 | 800 | 150 | 350 | 100 | 450 | 125 | 150 | 75 | S | S | D | D |
| Non-S&E occupations | 156,400 | 2,025 | 144,800 | 1,875 | 109,300 | 1,550 | 35,500 | 1,025 | 11,600 | 650 | 9,450 | 600 | 2,150 | 275 |
| Arts, humanities-related occupations | 9,950 | 475 | 9,500 | 475 | 8,300 | 450 | 1,200 | 200 | 450 | 125 | 350 | 100 | 150 | 75 |
| Management-related occupations | 35,000 | 1,025 | 31,000 | 1,025 | 22,050 | 800 | 9,000 | 575 | 3,950 | 375 | 3,000 | 350 | 950 | 175 |
| Non-S&E managers | 55,600 | 1,275 | 52,700 | 1,200 | 38,100 | 925 | 14,600 | 725 | 2,850 | 350 | 2,600 | 350 | 250 | 75 |
| Non-S&E postsecondary teachers | 19,500 | 725 | 17,250 | 700 | 13,100 | 550 | 4,150 | 350 | 2,250 | 250 | 1,850 | 225 | 350 | 100 |
| Non-S&E precollege and other teachers | 5,450 | 400 | 5,100 | 400 | 4,100 | 350 | 1,000 | 175 | 350 | 100 | 250 | 100 | S | S |
| Sales, marketing occupations | 6,950 | 450 | 6,500 | 425 | 4,850 | 350 | 1,650 | 250 | 500 | 125 | 450 | 125 | D | D |
| Social service-related occupations | 7,750 | 475 | 7,550 | 475 | 6,600 | 450 | 950 | 175 | 200 | 100 | 100 | 75 | S | S |
| Other non-S&E occupations | 16,200 | 675 | 15,150 | 625 | 12,200 | 550 | 2,950 | 325 | 1,050 | 200 | 800 | 175 | 250 | 100 |

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.

Note(s):

Numbers are rounded to the nearest 50. Standard errors are rounded up to the nearest 25. Detail may not add to total because of rounding. Residence location is based on reported living location on 1 February 2023.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients, 2023.