

TABLE 42

U.S. residing employed doctoral scientists and engineers, by occupation and sector of employment: 2023

(Number and SE)

| Occupation | All employed | | 4-year educational institution ^a | | Other educational institution ^b | | Private, for profit ^c | | Private, nonprofit | | Federal government | | State or local government | | Self-employed ^d | | Other ^e | |
|--|--------------|-------|---|-------|--|-----|----------------------------------|-------|--------------------|-----|--------------------|-----|---------------------------|-----|----------------------------|-----|--------------------|-----|
| | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE | Number | SE |
| Sociologists, anthropologists | 3,950 | 275 | 1,600 | 200 | 100 | 50 | 700 | 150 | 550 | 125 | 500 | 125 | 150 | 50 | 300 | 100 | 100 | 50 |
| Other social scientists | 11,200 | 500 | 3,650 | 300 | 300 | 75 | 2,300 | 275 | 2,250 | 200 | 1,300 | 175 | 750 | 150 | 600 | 125 | 100 | 50 |
| Engineering occupations | 127,550 | 1,600 | 35,600 | 925 | 400 | 125 | 73,900 | 1,350 | 4,300 | 350 | 7,850 | 525 | 2,500 | 325 | 2,800 | 350 | 150 | 75 |
| Aerospace, aeronautical, astronautical engineers | 7,500 | 425 | 1,100 | 200 | D | D | 3,850 | 300 | 800 | 150 | 1,550 | 200 | S | S | 100 | 50 | D | D |
| Chemical engineers | 8,050 | 500 | 600 | 125 | D | D | 6,450 | 450 | 200 | 75 | 450 | 125 | D | D | 300 | 150 | D | D |
| Civil, architectural, sanitary engineers | 7,800 | 500 | 1,050 | 200 | D | D | 4,350 | 350 | 250 | 125 | 550 | 150 | 1,300 | 250 | S | S | D | D |
| Electrical engineers | 29,900 | 1,000 | 2,300 | 250 | D | D | 24,150 | 900 | 900 | 175 | 1,600 | 275 | 250 | 100 | 650 | 175 | D | D |
| Industrial engineers | 1,300 | 225 | 250 | 75 | D | D | 700 | 150 | S | S | 100 | 50 | D | D | D | D | D | D |
| Mechanical engineers | 13,050 | 725 | 1,600 | 225 | D | D | 9,050 | 600 | 550 | 175 | 1,350 | 275 | D | D | 450 | 150 | D | D |
| Postsecondary teachers, engineering | 24,750 | 850 | 24,350 | 850 | 350 | 125 | D | D | D | D | D | D | D | D | D | D | D | D |
| Other engineers | 35,300 | 1,075 | 4,400 | 350 | D | D | 25,350 | 900 | 1,400 | 225 | 2,200 | 225 | 850 | 125 | 1,000 | 175 | D | D |
| S&E-related occupations | 135,450 | 1,825 | 36,100 | 950 | 7,150 | 450 | 46,600 | 1,200 | 16,100 | 700 | 9,550 | 550 | 3,950 | 325 | 15,850 | 750 | 200 | 75 |
| Health occupations, except postsecondary teachers and managers | 72,400 | 1,300 | 11,400 | 475 | 2,350 | 225 | 22,500 | 850 | 12,250 | 600 | 5,550 | 425 | 2,550 | 275 | 15,600 | 750 | 150 | 75 |
| Postsecondary teachers, health and related science | 19,900 | 725 | 18,850 | 700 | 350 | 100 | 100 | 50 | 500 | 150 | D | D | S | S | D | D | D | D |
| S&E managers, including health | 33,200 | 1,050 | 5,450 | 375 | S | S | 19,500 | 800 | 3,100 | 325 | 3,700 | 350 | 1,250 | 150 | S | S | D | D |
| S&E precollege teachers | 4,500 | 375 | 150 | 75 | 4,350 | 375 | D | D | D | D | D | D | D | D | D | D | D | D |
| S&E technicians and technologists | 4,550 | 400 | 250 | 75 | D | D | 3,750 | 375 | 150 | 75 | 200 | 100 | S | S | 100 | 50 | D | D |
| Other S&E-related occupations | 950 | 175 | D | D | D | D | 700 | 150 | S | S | D | D | D | D | D | D | D | D |
| Non-S&E occupations | 156,400 | 2,025 | 43,150 | 1,050 | 6,650 | 375 | 70,300 | 1,400 | 13,450 | 600 | 6,350 | 425 | 3,200 | 325 | 12,750 | 625 | 500 | 125 |
| Arts, humanities-related occupations | 9,950 | 475 | 950 | 175 | 100 | 50 | 4,200 | 300 | 1,350 | 175 | 300 | 75 | 150 | 50 | 2,850 | 250 | D | D |
| Management-related occupations | 35,000 | 1,025 | 4,950 | 350 | 650 | 125 | 20,200 | 775 | 3,250 | 300 | 2,500 | 225 | 1,000 | 200 | 2,350 | 275 | 50 | 50 |
| Non-S&E managers | 55,600 | 1,275 | 15,350 | 600 | 2,000 | 225 | 29,100 | 950 | 5,150 | 325 | 1,550 | 225 | 900 | 150 | 1,400 | 175 | 100 | 50 |
| Non-S&E postsecondary teachers | 19,500 | 725 | 18,300 | 675 | 900 | 150 | D | D | 100 | 50 | D | D | D | D | D | D | D | D |
| Non-S&E precollege and other teachers | 5,450 | 400 | 950 | 175 | 2,350 | 250 | 650 | 125 | 400 | 100 | S | S | D | D | 850 | 200 | D | D |
| Sales, marketing occupations | 6,950 | 450 | 100 | 50 | D | D | 5,650 | 425 | 200 | 75 | D | D | D | D | 950 | 175 | D | D |
| Social service-related occupations | 7,750 | 475 | 1,050 | 175 | 500 | 150 | 1,850 | 225 | 2,000 | 250 | 250 | 75 | 300 | 125 | 1,700 | 250 | D | D |
| Other non-S&E occupations | 16,200 | 675 | 1,400 | 200 | 200 | 75 | 8,600 | 550 | 1,050 | 175 | 1,500 | 200 | 750 | 125 | 2,600 | 275 | 50 | 50 |

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 Four-year educational institution includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes.

^b Other educational institution includes 2-year colleges, community colleges, technical institutes, precollege institutions, and other educational institutions.

^c Private, for profit includes those self-employed in an incorporated business.

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

^e Other sector includes employers not broken out separately.

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.