

TABLE 3

## U.S. residing doctoral scientists and engineers, by broad field of doctorate, employment status, ethnicity, and race: 2019

(Number and SE)

| Field of study and employment status                                     | Total     |       | Hispanic or Latino <sup>a</sup> |     | Not Hispanic or Latino <sup>b</sup> |     |         |       |                           |     |         |       |                         |     |
|--------------------------------------------------------------------------|-----------|-------|---------------------------------|-----|-------------------------------------|-----|---------|-------|---------------------------|-----|---------|-------|-------------------------|-----|
|                                                                          |           |       |                                 |     | American Indian or Alaska Native    |     | Asian   |       | Black or African American |     | White   |       | Other race <sup>c</sup> |     |
|                                                                          | Number    | SE    | Number                          | SE  | Number                              | SE  | Number  | SE    | Number                    | SE  | Number  | SE    | Number                  | SE  |
| All fields                                                               | 1,008,950 | 1,450 | 41,400                          | 575 | 1,600                               | 150 | 235,050 | 1,325 | 35,050                    | 350 | 682,450 | 1,425 | 13,400                  | 400 |
| Full time                                                                | 763,350   | 2,000 | 33,250                          | 575 | 1,100                               | 125 | 201,300 | 1,375 | 27,650                    | 425 | 489,300 | 1,775 | 10,700                  | 350 |
| Part time                                                                | 93,900    | 1,525 | 3,950                           | 250 | 150                                 | 50  | 12,050  | 625   | 3,400                     | 275 | 73,050  | 1,275 | 1,250                   | 150 |
| Unemployed <sup>d</sup>                                                  | 14,100    | 650   | 850                             | 125 | 50                                  | 50  | 3,950   | 350   | 1,050                     | 175 | 8,000   | 475   | 150                     | 50  |
| Retired                                                                  | 120,000   | 1,400 | 2,250                           | 200 | 150                                 | 50  | 13,500  | 700   | 2,300                     | 200 | 100,800 | 1,400 | 1,000                   | 150 |
| Not employed or not seeking work <sup>e</sup>                            | 17,650    | 625   | 1,050                           | 175 | 50                                  | 50  | 4,200   | 375   | 650                       | 125 | 11,300  | 500   | 350                     | 75  |
| Science                                                                  | 761,850   | 1,425 | 32,400                          | 500 | 1,300                               | 125 | 142,100 | 1,250 | 26,850                    | 375 | 548,500 | 1,525 | 10,700                  | 350 |
| Full time                                                                | 561,850   | 1,900 | 25,750                          | 475 | 900                                 | 125 | 120,250 | 1,200 | 20,850                    | 400 | 385,750 | 1,850 | 8,350                   | 325 |
| Part time                                                                | 78,450    | 1,350 | 3,450                           | 225 | 150                                 | 50  | 8,600   | 475   | 2,950                     | 250 | 62,150  | 1,175 | 1,150                   | 125 |
| Unemployed <sup>d</sup>                                                  | 10,200    | 575   | 650                             | 100 | 50                                  | 50  | 2,400   | 275   | 750                       | 175 | 6,150   | 425   | 100                     | 50  |
| Retired                                                                  | 97,200    | 1,300 | 1,800                           | 150 | 100                                 | 50  | 7,800   | 475   | 1,800                     | 175 | 84,950  | 1,300 | 800                     | 125 |
| Not employed or not seeking work <sup>e</sup>                            | 14,100    | 575   | 700                             | 125 | 50                                  | 50  | 3,050   | 300   | 500                       | 100 | 9,450   | 475   | 300                     | 75  |
| Biological, agricultural, and environmental life sciences                | 258,550   | 850   | 11,250                          | 300 | 250                                 | 50  | 55,700  | 900   | 7,800                     | 275 | 179,600 | 1,075 | 3,950                   | 225 |
| Full time                                                                | 200,900   | 1,100 | 9,500                           | 300 | 200                                 | 50  | 47,850  | 900   | 6,500                     | 250 | 133,650 | 1,050 | 3,200                   | 200 |
| Part time                                                                | 19,850    | 625   | 750                             | 100 | D                                   | D   | 2,800   | 275   | 550                       | 100 | 15,400  | 550   | 350                     | 100 |
| Unemployed <sup>d</sup>                                                  | 4,000     | 350   | 300                             | 75  | S                                   | S   | 900     | 175   | 300                       | 125 | 2,300   | 300   | 50                      | 25  |
| Retired                                                                  | 28,700    | 700   | 350                             | 75  | 50                                  | 25  | 2,700   | 275   | 300                       | 75  | 25,050  | 675   | 250                     | 75  |
| Not employed or not seeking work <sup>e</sup>                            | 5,150     | 325   | 300                             | 75  | D                                   | D   | 1,450   | 200   | 100                       | 50  | 3,150   | 250   | 100                     | 50  |
| Computer and information sciences                                        | 33,650    | 375   | 1,000                           | 100 | D                                   | D   | 14,000  | 400   | 650                       | 75  | 17,600  | 350   | 350                     | 100 |
| Full time                                                                | 29,350    | 450   | 950                             | 100 | D                                   | D   | 13,000  | 400   | 550                       | 75  | 14,600  | 400   | 300                     | 75  |
| Part time                                                                | 1,750     | 200   | D                               | D   | D                                   | D   | 400     | 125   | 50                        | 25  | 1,250   | 175   | S                       | S   |
| Unemployed <sup>d</sup>                                                  | 300       | 75    | D                               | D   | D                                   | D   | 100     | 50    | D                         | D   | 150     | 50    | D                       | D   |
| Retired                                                                  | 1,750     | 200   | 50                              | 25  | D                                   | D   | 300     | 100   | 50                        | 25  | 1,350   | 175   | D                       | D   |
| Not employed or not seeking work <sup>e</sup>                            | 500       | 125   | D                               | D   | D                                   | D   | 150     | 100   | D                         | D   | 300     | 100   | D                       | D   |
| Mathematics and statistics                                               | 43,800    | 375   | 1,450                           | 125 | D                                   | D   | 12,450  | 400   | 1,000                     | 100 | 28,400  | 425   | 450                     | 100 |
| Full time                                                                | 33,450    | 475   | 1,250                           | 100 | D                                   | D   | 10,600  | 400   | 750                       | 100 | 20,450  | 425   | 400                     | 100 |
| Part time                                                                | 3,250     | 300   | 50                              | 50  | D                                   | D   | 750     | 200   | 100                       | 50  | 2,300   | 225   | D                       | D   |
| Unemployed <sup>d</sup>                                                  | 550       | 125   | D                               | D   | D                                   | D   | 200     | 100   | D                         | D   | 350     | 100   | D                       | D   |
| Retired                                                                  | 5,900     | 350   | 150                             | 50  | D                                   | D   | 750     | 175   | 150                       | 75  | 4,850   | 300   | D                       | D   |
| Not employed or not seeking work <sup>e</sup>                            | 700       | 150   | D                               | D   | D                                   | D   | 200     | 75    | D                         | D   | 450     | 125   | D                       | D   |
| Physical sciences, geosciences, atmospheric sciences, and ocean sciences | 161,450   | 825   | 4,850                           | 200 | 100                                 | 50  | 36,850  | 750   | 3,350                     | 225 | 114,350 | 875   | 1,850                   | 150 |
| Full time                                                                | 121,600   | 1,000 | 3,900                           | 200 | 50                                  | 25  | 31,050  | 725   | 2,800                     | 225 | 82,250  | 975   | 1,500                   | 150 |
| Part time                                                                | 12,200    | 500   | 450                             | 75  | D                                   | D   | 1,900   | 275   | 200                       | 75  | 9,500   | 450   | 150                     | 50  |
| Unemployed <sup>d</sup>                                                  | 2,450     | 300   | 100                             | 50  | D                                   | D   | 800     | 175   | 100                       | 50  | 1,450   | 225   | *                       | *   |
| Retired                                                                  | 22,700    | 650   | 300                             | 75  | D                                   | D   | 2,600   | 300   | 100                       | 50  | 19,500  | 575   | 150                     | 50  |

TABLE 3

**U.S. residing doctoral scientists and engineers, by broad field of doctorate, employment status, ethnicity, and race: 2019**

(Number and SE)

| Field of study and employment status          | Total   |       | Hispanic or Latino <sup>a</sup> |     | Not Hispanic or Latino <sup>b</sup> |     |        |       |                           |     |         |       |                         |     |
|-----------------------------------------------|---------|-------|---------------------------------|-----|-------------------------------------|-----|--------|-------|---------------------------|-----|---------|-------|-------------------------|-----|
|                                               |         |       |                                 |     | American Indian or Alaska Native    |     | Asian  |       | Black or African American |     | White   |       | Other race <sup>c</sup> |     |
|                                               | Number  | SE    | Number                          | SE  | Number                              | SE  | Number | SE    | Number                    | SE  | Number  | SE    | Number                  | SE  |
| Not employed or not seeking work <sup>e</sup> | 2,500   | 275   | 100                             | 50  | D                                   | D   | 550    | 150   | S                         | S   | 1,700   | 200   | D                       | D   |
| Psychology                                    | 139,450 | 575   | 7,350                           | 275 | 350                                 | 75  | 8,000  | 450   | 6,700                     | 250 | 114,800 | 750   | 2,250                   | 175 |
| Full time                                     | 87,050  | 975   | 5,000                           | 225 | 200                                 | 75  | 5,700  | 375   | 4,900                     | 250 | 69,700  | 1,025 | 1,550                   | 150 |
| Part time                                     | 28,250  | 800   | 1,550                           | 175 | 100                                 | 50  | 1,400  | 225   | 900                       | 125 | 23,900  | 750   | 450                     | 100 |
| Unemployed <sup>d</sup>                       | 1,100   | 175   | 100                             | 50  | D                                   | D   | D      | D     | 150                       | 75  | 750     | 150   | *                       | *   |
| Retired                                       | 19,850  | 650   | 550                             | 100 | D                                   | D   | 550    | 150   | 600                       | 100 | 17,950  | 650   | 150                     | 50  |
| Not employed or not seeking work <sup>e</sup> | 3,150   | 275   | 150                             | 50  | D                                   | D   | 300    | 100   | S                         | S   | 2,450   | 250   | 100                     | 50  |
| Social sciences                               | 124,950 | 800   | 6,450                           | 275 | 500                                 | 100 | 15,150 | 500   | 7,350                     | 300 | 93,700  | 725   | 1,800                   | 175 |
| Full time                                     | 89,550  | 800   | 5,150                           | 250 | 400                                 | 100 | 12,050 | 500   | 5,350                     | 275 | 65,150  | 700   | 1,400                   | 150 |
| Part time                                     | 13,200  | 575   | 650                             | 100 | D                                   | D   | 1,400  | 200   | 1,050                     | 175 | 9,800   | 500   | 200                     | 75  |
| Unemployed <sup>d</sup>                       | 1,800   | 200   | 100                             | 50  | D                                   | D   | 350    | 100   | 200                       | 75  | 1,100   | 175   | D                       | D   |
| Retired                                       | 18,300  | 525   | 400                             | 75  | S                                   | S   | 900    | 150   | 550                       | 100 | 16,250  | 525   | 150                     | 50  |
| Not employed or not seeking work <sup>e</sup> | 2,200   | 200   | 150                             | 50  | D                                   | D   | 400    | 125   | 200                       | 75  | 1,450   | 175   | S                       | S   |
| Engineering                                   | 199,500 | 975   | 7,450                           | 300 | 150                                 | 50  | 83,500 | 1,150 | 4,650                     | 225 | 101,650 | 1,025 | 2,100                   | 225 |
| Full time                                     | 166,300 | 1,250 | 6,250                           | 275 | 150                                 | 50  | 73,050 | 1,125 | 3,950                     | 200 | 81,050  | 1,025 | 1,850                   | 225 |
| Part time                                     | 10,400  | 575   | 350                             | 75  | D                                   | D   | 2,750  | 300   | 200                       | 50  | 6,950   | 450   | S                       | S   |
| Unemployed <sup>d</sup>                       | 3,350   | 325   | 150                             | 50  | D                                   | D   | 1,450  | 225   | 200                       | 75  | 1,500   | 225   | D                       | D   |
| Retired                                       | 16,750  | 725   | 400                             | 100 | D                                   | D   | 5,200  | 425   | 200                       | 75  | 10,750  | 600   | 150                     | 75  |
| Not employed or not seeking work <sup>e</sup> | 2,750   | 275   | 300                             | 125 | D                                   | D   | 1,050  | 200   | 100                       | 50  | 1,300   | 175   | D                       | D   |
| Health                                        | 47,600  | 400   | 1,550                           | 125 | 150                                 | 50  | 9,450  | 375   | 3,550                     | 200 | 32,350  | 400   | 600                     | 100 |
| Full time                                     | 35,150  | 525   | 1,250                           | 100 | 50                                  | 25  | 8,000  | 375   | 2,850                     | 200 | 22,500  | 475   | 500                     | 75  |
| Part time                                     | 5,050   | 325   | 150                             | 50  | D                                   | D   | 650    | 150   | 300                       | 75  | 3,900   | 275   | *                       | *   |
| Unemployed <sup>d</sup>                       | 550     | 125   | D                               | D   | D                                   | D   | 100    | 50    | 100                       | 50  | 350     | 100   | D                       | D   |
| Retired                                       | 6,050   | 300   | 50                              | 25  | D                                   | D   | 500    | 125   | 300                       | 75  | 5,100   | 275   | S                       | S   |
| Not employed or not seeking work <sup>e</sup> | 750     | 100   | 50                              | 25  | D                                   | D   | 100    | 50    | 50                        | 25  | 500     | 100   | 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.

SE = standard error.

<sup>a</sup> Hispanic or Latino may be of any race.

<sup>b</sup> American Indian or Alaska Native, Asian, Black or African American, and White are single race.

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

<sup>d</sup> Unemployed includes individuals who were not working during the survey reference week but had been seeking work in the prior 4 weeks or who were on layoff from their job.

<sup>e</sup> Not employed or not seeking work includes individuals who were not working during the survey reference week and had not been seeking work in the prior 4 weeks because of family responsibilities, chronic illness, or other reasons.

**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. Designation of full-time and part-time employment status is based on principal job only, not on all jobs held in labor force. For example, an individual could work part time in his or her principal job but full time in the labor force. Full time is based on working 35 or more hours per week. 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.