

TABLE 9. Employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2008

| Characteristic                   | Science occupations |                         |  |  |                            |                        |               |                      |                            |  |  |
|----------------------------------|---------------------|-------------------------|--|--|----------------------------|------------------------|---------------|----------------------|----------------------------|--|--|
|                                  | All employed        | All science occupations | Biological/<br>agricultural/<br>other<br>life scientists | Computer/<br>information<br>scientists | Mathematical<br>scientists | Physical<br>scientists | Psychologists | Social<br>scientists | Engineering<br>occupations | Science/<br>engineering-<br>related<br>occupations | Non-science/<br>non-<br>engineering<br>occupations |
| Doctorate recipient              | 651,200             | 380,500                 | 118,700  | 36,300                                 | 27,600                     | 76,900                 | 68,200        | 52,800               | 84,500                     | 75,200   | 111,000  |
| Sex                              |                     |                         |  |  |                            |                        |               |                      |                            |  |  |
| Male                             | 451,200             | 254,900                 | 76,400   | 31,200                                 | 21,000                     | 63,100                 | 30,400        | 32,800               | 74,900                     | 47,800   | 73,600   |
| Female                           | 199,900             | 125,500                 | 42,300   | 5,200                                  | 6,500                      | 13,800                 | 37,800        | 20,000               | 9,600                      | 27,400   | 37,400   |
| Ethnicity/race                   |                     |                         |  |  |                            |                        |               |                      |                            |  |  |
| Hispanic or Latino               | 20,300              | 12,600                  | 4,200  | 600                                    | 800                        | 2,100                  | 2,700         | 2,100                | 2,000                      | 2,000  | 3,600  |
| Not Hispanic or Latino           |                     |                         |  |  |                            |                        |               |                      |                            |  |  |
| American Indian or Alaska Native | 1,300               | 800                     | 100  | D                                      | D                          | 200                    | 200           | 200                  | 100                        | 200  | 200  |
| Asian                            | 117,300             | 61,800                  | 22,400   | 12,600                                 | 7,100                      | 13,100                 | 1,900         | 4,700                | 28,700                     | 13,300   | 13,600   |
| Black or African American        | 19,400              | 10,700                  | 2,600  | 500                                    | 600                        | 1,400                  | 3,000         | 2,600                | 1,500                      | 2,900  | 4,400  |
| White                            | 484,900             | 289,800                 | 87,600   | 22,200                                 | 18,900                     | 59,500                 | 59,400        | 42,200               | 51,500                     | 56,000   | 87,600   |
| Other race <sup>a</sup>          | 8,000               | 4,700                   | 1,600  | 400                                    | 200                        | 800                    | 900           | 800                  | 700                        | 1,000  | 1,600  |
| Age                              |                     |                         |  |  |                            |                        |               |                      |                            |  |  |
| Under 35                         | 67,800              | 44,800                  | 17,200   | 4,000                                  | 4,200                      | 9,900                  | 5,200         | 4,300                | 12,700                     | 4,900  | 5,400  |
| 35–39                            | 85,900              | 54,300                  | 18,600   | 5,200                                  | 4,500                      | 10,700                 | 7,900         | 7,500                | 12,800                     | 8,700  | 10,100   |
| 40–44                            | 87,400              | 52,200                  | 18,000   | 5,900                                  | 4,000                      | 10,100                 | 7,300         | 6,900                | 12,500                     | 10,100   | 12,600   |
| 45–49                            | 89,700              | 51,100                  | 15,900   | 6,100                                  | 3,200                      | 10,500                 | 8,500         | 6,800                | 12,600                     | 11,600   | 14,300   |
| 50–54                            | 93,900              | 53,300                  | 17,100   | 5,200                                  | 3,100                      | 10,900                 | 9,800         | 7,400                | 10,100                     | 13,300   | 17,200   |
| 55–59                            | 88,700              | 49,400                  | 13,800   | 4,100                                  | 3,100                      | 9,200                  | 11,700        | 7,400                | 9,000                      | 11,300   | 19,000   |
| 60–64                            | 75,600              | 42,000                  | 10,000   | 3,700                                  | 2,700                      | 8,200                  | 10,700        | 6,700                | 6,800                      | 9,000  | 17,700   |
| 65–75                            | 62,200              | 33,300                  | 8,000  | 2,100                                  | 2,800                      | 7,500                  | 6,900         | 5,900                | 8,000                      | 6,200  | 14,700   |
| Citizenship status               |                     |                         |  |  |                            |                        |               |                      |                            |  |  |
| U.S. citizen                     | 577,300             | 336,000                 | 103,600  | 28,900                                 | 21,800                     | 67,400                 | 66,800        | 47,500               | 66,600                     | 69,800   | 105,000  |
| Native-born                      | 474,900             | 284,600                 | 87,300   | 19,300                                 | 16,400                     | 56,600                 | 62,700        | 42,300               | 44,700                     | 56,600   | 88,900   |
| Naturalized                      | 102,400             | 51,400                  | 16,300   | 9,600                                  | 5,400                      | 10,900                 | 4,000         | 5,200                | 21,800                     | 13,100   | 16,000   |
| Non-U.S. citizen                 | 73,900              | 44,500                  | 15,100   | 7,400                                  | 5,700                      | 9,500                  | 1,400         | 5,300                | 17,900                     | 5,500  | 6,100  |
| Permanent resident               | 47,600              | 28,400                  | 9,300  | 5,000                                  | 3,500                      | 5,900                  | 1,100         | 3,600                | 10,700                     | 4,100  | 4,500  |
| Temporary resident               | 26,200              | 16,100                  | 5,800  | 2,400                                  | 2,300                      | 3,600                  | 300           | 1,700                | 7,200                      | 1,400  | 1,600  |
| Years since doctorate            |                     |                         |  |  |                            |                        |               |                      |                            |  |  |
| ≤5                               | 124,800             | 80,800                  | 29,000   | 7,400                                  | 6,700                      | 15,000                 | 11,000        | 11,800               | 19,500                     | 12,300   | 12,200   |
| 6–10                             | 107,100             | 64,900                  | 21,700   | 7,100                                  | 5,000                      | 11,700                 | 10,400        | 9,100                | 14,300                     | 12,500   | 15,400   |
| 11–15                            | 100,300             | 56,700                  | 17,700   | 7,300                                  | 3,700                      | 10,600                 | 9,900         | 7,500                | 13,900                     | 13,700   | 16,000   |
| 16–20                            | 83,200              | 46,700                  | 14,400   | 4,400                                  | 2,900                      | 9,600                  | 9,500         | 6,000                | 10,700                     | 10,600   | 15,200   |
| 21–25                            | 73,200              | 41,300                  | 11,500   | 3,200                                  | 2,500                      | 9,300                  | 9,200         | 5,500                | 8,000                      | 9,300  | 14,600   |
| >25                              | 162,600             | 90,000                  | 24,500   | 6,900                                  | 6,800                      | 20,700                 | 18,100        | 12,900               | 17,900                     | 17,000   | 37,700   |
| Place of birth <sup>b</sup>      |                     |                         |  |  |                            |                        |               |                      |                            |  |  |
| United States                    | 467,800             | 280,200                 | 85,800   | 18,900                                 | 16,100                     | 56,200                 | 61,900        | 41,500               | 44,200                     | 55,600   | 87,800   |

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|------------------------------|---------------------|-------------------------|--|--|----------------------------|------------------------|---------------|----------------------|----------------------------|--|--|
|                              | All employed        | All science occupations | Biological/<br>agricultural/<br>other<br>life scientists | Computer/<br>information<br>scientists | Mathematical<br>scientists | Physical<br>scientists | Psychologists | Social<br>scientists | Engineering<br>occupations | Science/<br>engineering-<br>related<br>occupations | Non-science/<br>non-<br>engineering<br>occupations |
| Europe                       | 31,600              | 20,600                  | 5,600  | 2,800                                  | 2,500                      | 4,700                  | 2,200         | 2,800                | 3,900                      | 2,800  | 4,300  |
| Asia                         | 121,800             | 63,100                  | 22,200   | 13,200                                 | 7,400                      | 12,900                 | 2,100         | 5,400                | 31,700                     | 12,900   | 14,100   |
| North America <sup>c</sup>   | 6,200               | 3,600                   | 1,000  | 300                                    | 400                        | 600                    | 700           | 700                  | 700                        | 1,000  | 900  |
| Central America <sup>d</sup> | 2,800               | 1,700                   | 700  | 100                                    | 100                        | 300                    | 200           | 300                  | 300                        | 300  | 500  |
| Caribbean                    | 2,800               | 1,600                   | 400  | 100                                    | 100                        | 300                    | 400           | 300                  | 400                        | 400  | 500  |
| South America                | 6,000               | 3,600                   | 1,100  | 400                                    | 400                        | 600                    | 600           | 600                  | 900                        | 600  | 1,000  |
| Africa                       | 8,600               | 4,400                   | 1,400  | 500                                    | 500                        | 900                    | 100           | 900                  | 1,600                      | 1,200  | 1,300  |
| Oceania                      | 1,100               | 700                     | 200  | D                                      | D                          | 100                    | D             | 200                  | 200                        | S  | 200  |

D = suppressed for confidentiality. S = suppressed for reliability; coefficient of variation exceeds publication standards for this survey.

<sup>a</sup> Includes Native Hawaiians, Other Pacific Islanders, and respondents reporting 2 or more races.

<sup>b</sup> Numbers are based on persons who reported place of birth. Persons who did not specify place of birth are included in total but not shown separately.

<sup>c</sup> Excludes United States.

<sup>d</sup> Includes Mexico.

NOTES: Numbers are rounded to nearest 100. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2008.