



APPENDIX TABLE 3-16

Employed S&E highest degree holders, by race, ethnicity, and field of degree: 2015

(Number and percent)

| Highest degree field | Total | Asian | | American Indian or Alaska Native | | Black | | Hispanic | | White | | Native Hawaiian or Other Pacific Islander | | More than one race | |
|-----------------------------------------------------------|------------|-----------|---------|----------------------------------|---------|---------|---------|-----------|---------|-----------|---------|-------------------------------------------|---------|--------------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| All S&E degrees | 13,497,000 | 2,035,000 | 15.1 | 40,000 | 0.3 | 869,000 | 6.4 | 1,135,000 | 8.4 | 9,122,000 | 67.6 | 42,000 | 0.3 | 255,000 | 1.9 |
| Computer and mathematical sciences | 2,346,000 | 542,000 | 23.1 | 2,000 | 0.1 | 172,000 | 7.3 | 136,000 | 5.8 | 1,446,000 | 61.6 | 8,000 | 0.3 | 42,000 | 1.8 |
| Computer and information sciences | 1,826,000 | 462,000 | 25.3 | 2,000 | 0.1 | 146,000 | 8.0 | 109,000 | 6.0 | 1,069,000 | 58.5 | 2,000 | 0.1 | 36,000 | 2.0 |
| Computer and information sciences, general | 340,000 | 85,000 | 25.0 | s | s | 39,000 | 11.5 | 23,000 | 6.8 | 184,000 | 54.1 | s | s | 10,000 | 2.9 |
| Computer science | 968,000 | 306,000 | 31.6 | s | s | 54,000 | 5.6 | 54,000 | 5.6 | 537,000 | 55.5 | s | s | 17,000 | 1.8 |
| Computer systems analysis | 49,000 | 6,000 | 12.2 | s | s | 4,000 | 8.2 | 3,000 | 6.1 | 36,000 | 73.5 | s | s | s | s |
| Information services and systems | 371,000 | 52,000 | 14.0 | s | s | 36,000 | 9.7 | 26,000 | 7.0 | 248,000 | 66.8 | s | s | 7,000 | 1.9 |
| Other computer and information sciences | 97,000 | 14,000 | 14.4 | s | s | 13,000 | 13.4 | 4,000 | 4.1 | 64,000 | 66.0 | s | s | s | s |
| Mathematics and statistics | 520,000 | 79,000 | 15.2 | * | * | 26,000 | 5.0 | 27,000 | 5.2 | 377,000 | 72.5 | s | s | 6,000 | 1.2 |
| Applied mathematics | 49,000 | 11,000 | 22.4 | s | s | s | s | 2,000 | 4.1 | 35,000 | 71.4 | s | s | s | s |
| Mathematics, general | 363,000 | 38,000 | 10.5 | * | * | 20,000 | 5.5 | 17,000 | 4.7 | 283,000 | 78.0 | s | s | 4,000 | 1.1 |
| Operations research | 34,000 | 6,000 | 17.6 | s | s | s | s | 2,000 | 5.9 | 25,000 | 73.5 | s | s | s | s |
| Statistics | 58,000 | 23,000 | 39.7 | s | s | s | s | 3,000 | 5.2 | 28,000 | 48.3 | s | s | 1,000 | 1.7 |
| Other mathematics | 16,000 | 1,000 | s | s | s | s | s | s | s | 6,000 | 37.5 | s | s | s | s |
| Biological, agricultural, and environmental life sciences | 2,116,000 | 281,000 | 13.3 | 7,000 | 0.3 | 114,000 | 5.4 | 174,000 | 8.2 | 1,504,000 | 71.1 | 4,000 | 0.2 | 33,000 | 1.6 |



| Highest degree field | Total | Asian | | American Indian or Alaska Native | | Black | | Hispanic | | White | | Native Hawaiian or Other Pacific Islander | | More than one race | |
|--------------------------------------------|-----------|---------|---------|----------------------------------|---------|---------|---------|----------|---------|-----------|---------|-------------------------------------------|---------|--------------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Agricultural and food sciences | 291,000 | 14,000 | 4.8 | s | s | 6,000 | 2.1 | 13,000 | 4.5 | 253,000 | 86.9 | 1,000 | 0.3 | 2,000 | 0.7 |
| Animal sciences | 102,000 | s | s | s | s | 1,000 | s | 6,000 | 5.9 | 92,000 | 90.2 | s | s | 1,000 | 1.0 |
| Food sciences and technology | 35,000 | 5,000 | 14.3 | s | s | 1,000 | 2.9 | 2,000 | 5.7 | 25,000 | 71.4 | s | s | s | s |
| Plant sciences | 92,000 | 6,000 | 6.5 | s | s | s | s | 4,000 | 4.3 | 79,000 | 85.9 | s | s | s | s |
| Other agricultural sciences | 62,000 | 3,000 | 4.8 | s | s | s | s | s | s | 57,000 | 91.9 | s | s | s | s |
| Biological sciences | 1,632,000 | 263,000 | 16.1 | 4,000 | 0.2 | 102,000 | 6.3 | 137,000 | 8.4 | 1,095,000 | 67.1 | 3,000 | 0.2 | 29,000 | 1.8 |
| Biochemistry and biophysics | 139,000 | 34,000 | 24.5 | s | s | 2,000 | 1.4 | 8,000 | 5.8 | 93,000 | 66.9 | s | s | 2,000 | 1.4 |
| Biology, general | 807,000 | 117,000 | 14.5 | 2,000 | 0.2 | 75,000 | 9.3 | 58,000 | 7.2 | 541,000 | 67.0 | 1,000 | 0.1 | 12,000 | 1.5 |
| Botany | 18,000 | 4,000 | 22.2 | s | s | s | s | s | s | 14,000 | 77.8 | s | s | * | * |
| Cell and molecular biology | 95,000 | 23,000 | 24.2 | s | s | s | s | 11,000 | 11.6 | 53,000 | 55.8 | s | s | 2,000 | 2.1 |
| Ecology | 87,000 | 2,000 | 2.3 | s | s | s | s | s | s | 72,000 | 82.8 | s | s | s | s |
| Genetics, animal and plant | 20,000 | 3,000 | 15.0 | s | s | s | s | 1,000 | 5.0 | 16,000 | 80.0 | s | s | s | s |
| Microbiological sciences and immunology | 118,000 | 19,000 | 16.1 | s | s | s | s | 14,000 | 11.9 | 78,000 | 66.1 | s | s | 1,000 | 0.8 |
| Nutritional sciences | 71,000 | 13,000 | 18.3 | s | s | 2,000 | 2.8 | 3,000 | 4.2 | 50,000 | 70.4 | s | s | s | s |
| Pharmacology, human and animal | 26,000 | 6,000 | 23.1 | s | s | s | s | s | s | 16,000 | 61.5 | s | s | s | s |
| Physiology and pathology, human and animal | 58,000 | 10,000 | 17.2 | s | s | 1,000 | 1.7 | 3,000 | 5.2 | 41,000 | 70.7 | s | s | s | s |
| Zoology, general | 56,000 | 10,000 | 17.9 | s | s | 1,000 | 1.8 | 3,000 | 5.4 | 42,000 | 75.0 | s | s | s | s |



| Highest degree field | Total | Asian | | American Indian or Alaska Native | | Black | | Hispanic | | White | | Native Hawaiian or Other Pacific Islander | | More than one race | |
|----------------------------------------|-----------|---------|---------|----------------------------------|---------|---------|---------|----------|---------|-----------|---------|-------------------------------------------|---------|--------------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Other biological sciences | 135,000 | 22,000 | 16.3 | s | s | 5,000 | 3.7 | s | s | 79,000 | 58.5 | s | s | 2,000 | s |
| Environmental life sciences | 194,000 | 5,000 | 2.6 | 1,000 | 0.5 | 6,000 | 3.1 | 24,000 | 12.4 | 156,000 | 80.4 | s | s | 2,000 | 1.0 |
| Environmental science or studies | 157,000 | 4,000 | 2.5 | s | s | 5,000 | 3.2 | 24,000 | 15.3 | 122,000 | 77.7 | s | s | 2,000 | 1.3 |
| Forestry sciences | 36,000 | 1,000 | 2.8 | s | s | * | * | s | s | 34,000 | 94.4 | s | s | s | s |
| Physical and related sciences | 789,000 | 138,000 | 17.5 | s | s | 25,000 | 3.2 | 43,000 | 5.4 | 571,000 | 72.4 | s | s | 8,000 | 1.0 |
| Chemistry, except biochemistry | 370,000 | 85,000 | 23.0 | s | s | 16,000 | 4.3 | 20,000 | 5.4 | 243,000 | 65.7 | s | s | 3,000 | 0.8 |
| Earth, atmospheric, and ocean sciences | 218,000 | 8,000 | 3.7 | * | * | s | s | 9,000 | 4.1 | 196,000 | 89.9 | s | s | 2,000 | 0.9 |
| Atmospheric sciences and meteorology | 35,000 | 4,000 | 11.4 | s | s | s | s | s | s | 27,000 | 77.1 | s | s | * | * |
| Earth sciences | 45,000 | 1,000 | 2.2 | s | s | s | s | s | s | 42,000 | 93.3 | s | s | s | s |
| Geology | 98,000 | s | s | s | s | s | s | 4,000 | 4.1 | 90,000 | 91.8 | s | s | 1,000 | 1.0 |
| Geological sciences, other | 32,000 | 2,000 | 6.3 | s | s | s | s | 1,000 | 3.1 | 29,000 | 90.6 | s | s | s | s |
| Oceanography | 9,000 | s | s | s | s | s | s | s | s | 8,000 | 88.9 | s | s | s | s |
| Physics and astronomy | 187,000 | 43,000 | 23.0 | s | s | 7,000 | 3.7 | 12,000 | 6.4 | 122,000 | 65.2 | s | s | 3,000 | 1.6 |
| Astronomy and astrophysics | 14,000 | 2,000 | 14.3 | s | s | s | s | s | s | 11,000 | 78.6 | s | s | s | s |
| Physics | 173,000 | 41,000 | 23.7 | s | s | 6,000 | 3.5 | 12,000 | 6.9 | 111,000 | 64.2 | s | s | 3,000 | 1.7 |
| Other physical sciences | 14,000 | s | s | s | s | s | s | s | s | 10,000 | 71.4 | s | s | s | s |
| Other physical sciences | 5,056,000 | 358,000 | 7.1 | 20,000 | 0.4 | 437,000 | 8.6 | 505,000 | 10.0 | 3,587,000 | 70.9 | 24,000 | 0.5 | 125,000 | 2.5 |



| Highest degree field | Total | Asian | | American Indian or Alaska Native | | Black | | Hispanic | | White | | Native Hawaiian or Other Pacific Islander | | More than one race | |
|------------------------------------------|-----------|---------|---------|----------------------------------|---------|---------|---------|----------|---------|-----------|---------|-------------------------------------------|---------|--------------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Science, unclassified | 817,000 | 110,000 | 13.5 | s | s | 62,000 | 7.6 | 51,000 | 6.2 | 570,000 | 69.8 | s | s | 18,000 | 2.2 |
| Social and related sciences | 63,000 | 2,000 | 3.2 | s | s | * | * | s | s | 57,000 | 90.5 | s | s | s | s |
| Economics | 754,000 | 108,000 | 14.3 | s | s | 62,000 | 8.2 | 49,000 | 6.5 | 513,000 | 68.0 | s | s | 16,000 | 2.1 |
| Agricultural economics | 908,000 | 69,000 | 7.6 | 4,000 | 0.4 | 55,000 | 6.1 | 94,000 | 10.4 | 669,000 | 73.7 | s | s | 16,000 | 1.8 |
| Economics | 57,000 | 7,000 | 12.3 | s | s | 6,000 | 10.5 | 10,000 | 17.5 | 33,000 | 57.9 | s | s | * | * |
| Political and related sciences | 198,000 | 21,000 | 10.6 | s | s | 8,000 | 4.0 | 15,000 | 7.6 | 145,000 | 73.2 | s | s | 8,000 | 4.0 |
| Public policy studies | 653,000 | 41,000 | 6.3 | 4,000 | 0.6 | 41,000 | 6.3 | 68,000 | 10.4 | 491,000 | 75.2 | s | s | 8,000 | 1.2 |
| International relations | 1,967,000 | 112,000 | 5.7 | 5,000 | 0.3 | 171,000 | 8.7 | 212,000 | 10.8 | 1,409,000 | 71.6 | 5,000 | 0.3 | 53,000 | 2.7 |
| Political science and government | 124,000 | 10,000 | 8.1 | s | s | 8,000 | 6.5 | 14,000 | 11.3 | 90,000 | 72.6 | s | s | 1,000 | 0.8 |
| Psychology | 217,000 | 10,000 | 4.6 | s | s | 18,000 | 8.3 | 32,000 | 14.7 | 148,000 | 68.2 | s | s | 6,000 | 2.8 |
| Educational psychology | 289,000 | 5,000 | 1.7 | s | s | 41,000 | 14.2 | 31,000 | 10.7 | 203,000 | 70.2 | s | s | 6,000 | 2.1 |
| Clinical psychology | 48,000 | 1,000 | 2.1 | s | s | s | s | 2,000 | 4.2 | 44,000 | 91.7 | s | s | * | * |
| Counseling psychology | 896,000 | 57,000 | 6.4 | s | s | 61,000 | 6.8 | 92,000 | 10.3 | 652,000 | 72.8 | s | s | 28,000 | 3.1 |
| Experimental psychology | 74,000 | 3,000 | 4.1 | s | s | 5,000 | 6.8 | 5,000 | 6.8 | 59,000 | 79.7 | s | s | s | s |
| General psychology | 102,000 | s | s | s | s | 3,000 | 2.9 | 10,000 | 9.8 | 79,000 | 77.5 | s | s | 2,000 | 2.0 |
| Industrial and organizational psychology | 217,000 | 18,000 | 8.3 | s | s | 33,000 | 15.2 | 25,000 | 11.5 | 133,000 | 61.3 | s | s | 7,000 | 3.2 |
| Social psychology | 789,000 | 37,000 | 4.7 | s | s | 108,000 | 13.7 | 89,000 | 11.3 | 520,000 | 65.9 | 11,000 | 1.4 | 20,000 | 2.5 |



| Highest degree field | Total | Asian | | American Indian or Alaska Native | | Black | | Hispanic | | White | | Native Hawaiian or Other Pacific Islander | | More than one race | |
|--------------------------------------------------------|-----------|---------|---------|----------------------------------|---------|---------|---------|----------|---------|-----------|---------|-------------------------------------------|---------|--------------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Other psychology | 156,000 | 4,000 | 2.6 | s | s | s | s | 9,000 | 5.8 | 128,000 | 82.1 | * | * | 6,000 | 3.8 |
| Sociology and anthropology | 89,000 | s | s | s | s | 4,000 | 4.5 | 18,000 | 20.2 | 52,000 | 58.4 | s | s | s | s |
| Anthropology and archaeology | 544,000 | 24,000 | 4.4 | s | s | 95,000 | 17.5 | 62,000 | 11.4 | 340,000 | 62.5 | 10,000 | 1.8 | 7,000 | 1.3 |
| Criminology | 574,000 | 30,000 | 5.2 | s | s | 42,000 | 7.3 | 60,000 | 10.5 | 419,000 | 73.0 | 1,000 | 0.2 | 18,000 | 3.1 |
| Sociology | 117,000 | 9,000 | 7.7 | s | s | 13,000 | 11.1 | 13,000 | 11.1 | 77,000 | 65.8 | s | s | 4,000 | 3.4 |
| Other social sciences | 84,000 | 6,000 | 7.1 | s | s | s | s | 18,000 | 21.4 | 55,000 | 65.5 | s | s | s | s |
| Area and ethnic studies | 15,000 | s | s | s | s | s | s | s | s | 14,000 | 93.3 | s | s | s | s |
| Linguistics | 140,000 | 7,000 | 5.0 | s | s | 1,000 | s | 5,000 | 3.6 | 118,000 | 84.3 | s | s | 9,000 | 6.4 |
| Philosophy of science | 6,000 | s | s | s | s | s | s | s | s | 5,000.0 | 83.3 | s | s | s | s |
| Geography | 212,000 | 8,000 | 3.8 | s | s | 26,000 | 12.3 | 22,000 | 10.4 | 150,000 | 70.8 | s | s | 5,000 | 2.4 |
| History of science | 3,190,000 | 717,000 | 22.5 | 9,000 | 0.3 | 121,000 | 3.8 | 277,000 | 8.7 | 2,014,000 | 63.1 | 6,000 | 0.2 | 46,000 | 1.4 |
| Other social sciences | 135,000 | 22,000 | 16.3 | s | s | 2,000 | 1.5 | 11,000 | 8.1 | 98,000 | 72.6 | s | s | s | s |
| Engineering | 211,000 | 38,000 | 18.0 | s | s | 11,000 | 5.2 | 13,000 | 6.2 | 144,000 | 68.2 | s | s | 4,000 | 1.9 |
| Aerospace, aeronautical, and astronautical engineering | 451,000 | 79,000 | 17.5 | s | s | 13,000 | 2.9 | 39,000 | 8.6 | 313,000 | 69.4 | s | s | 4,000 | 0.9 |
| Chemical engineering | 27,000 | s | s | s | s | s | s | s | s | 21,000 | 77.8 | s | s | s | s |
| Civil and architectural engineering | 424,000 | 75,000 | 17.7 | s | s | 12,000 | 2.8 | 37,000 | 8.7 | 292,000 | 68.9 | s | s | 4,000 | 0.9 |
| Architectural engineering | 1,112,000 | 360,000 | 32.4 | 3,000 | 0.3 | 48,000 | 4.3 | 102,000 | 9.2 | 581,000 | 52.2 | 2,000 | 0.2 | 17,000 | 1.5 |



| Highest degree field | Total | Asian | | American Indian or Alaska Native | | Black | | Hispanic | | White | | Native Hawaiian or Other Pacific Islander | | More than one race | |
|---------------------------------------------------------|---------|---------|---------|----------------------------------|---------|--------|---------|----------|---------|---------|---------|-------------------------------------------|---------|--------------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Civil engineering | 297,000 | 100,000 | 33.7 | s | s | 10,000 | 3.4 | 41,000 | 13.8 | 139,000 | 46.8 | s | s | 6,000 | 2.0 |
| Electrical and computer engineering | 815,000 | 259,000 | 31.8 | 3,000 | 0.4 | 39,000 | 4.8 | 61,000 | 7.5 | 442,000 | 54.2 | 1,000 | 0.1 | 11,000 | 1.3 |
| Computer and systems engineering | 201,000 | 28,000 | 13.9 | s | s | 10,000 | 5.0 | 30,000 | 14.9 | 131,000 | 65.2 | s | s | 1,000 | 0.5 |
| Electrical, electronics, and communications engineering | 201,000 | 28,000 | 13.9 | s | s | 10,000 | 5.0 | 30,000 | 14.9 | 131,000 | 65.2 | s | s | 1,000 | 0.5 |
| Industrial and manufacturing engineering | 659,000 | 118,000 | 17.9 | 5,000.0 | 0.8 | 19,000 | 2.9 | 58,000 | 8.8 | 448,000 | 68.0 | s | s | 11,000 | 1.7 |
| Mechanical engineering | 659,000 | 118,000 | 17.9 | 5,000 | 0.8 | 19,000 | 2.9 | 58,000 | 8.8 | 448,000 | 68.0 | s | s | 11,000 | 1.7 |
| Other engineering | 421,000 | 71,000 | 16.9 | s | s | 18,000 | 4.3 | 25,000 | 5.9 | 300,000 | 71.3 | s | s | 7,000 | 1.7 |
| Agricultural engineering | 26,000 | 1,000 | 3.8 | s | s | s | s | 2,000 | 7.7 | 22,000 | 84.6 | s | s | s | s |
| Bioengineering and biomedical engineering | 49,000 | 13,000 | 26.5 | s | s | 2,000 | 4.1 | 5,000 | 10.2 | 28,000 | 57.1 | s | s | 1,000 | 2.0 |
| Engineering sciences, mechanics, and physics | 29,000 | 8,000 | 27.6 | s | s | 1,000 | 3.4 | 2,000 | 6.9 | 18,000 | 62.1 | s | s | s | s |
| Environmental engineering | 53,000 | 5,000 | 9.4 | s | s | s | s | 4,000 | 7.5 | 41,000 | 77.4 | s | s | s | s |
| Engineering, general | 23,000 | 3,000 | 13.0 | s | s | * | * | * | * | 18,000 | 78.3 | s | s | s | s |
| Geophysical and geological engineering | 14,000 | s | s | s | s | s | s | s | s | 11,000 | 78.6 | s | s | s | s |
| Materials engineering, including ceramics and textiles | 52,000 | 14,000 | 26.9 | s | s | 1,000 | 1.9 | 2,000 | 3.8 | 35,000 | 67.3 | s | s | s | s |
| Metallurgical engineering | 10,000 | 1,000 | 10.0 | s | s | s | s | s | s | 8,000 | 80.0 | s | s | s | s |
| Mining and minerals engineering | 8,000 | 2,000 | 25.0 | s | s | s | s | s | s | 5,000 | 62.5 | s | s | s | s |
| Naval architecture and marine engineering | 15,000 | s | s | s | s | s | s | s | s | 12,000 | 80.0 | s | s | s | s |



| Highest degree field | Total | Asian | | American Indian or Alaska Native | | Black | | Hispanic | | White | | Native Hawaiian or Other Pacific Islander | | More than one race | |
|-----------------------|--------|--------|---------|----------------------------------|---------|--------|---------|----------|---------|--------|---------|-------------------------------------------|---------|--------------------|---------|
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Nuclear engineering | 19,000 | 1,000 | s | s | s | s | s | * | * | 17,000 | 89.5 | s | s | s | s |
| Petroleum engineering | 28,000 | 2,000 | 7.1 | s | s | s | s | 1,000 | 3.6 | 17,000 | 60.7 | s | s | s | s |
| Other engineering | 96,000 | 19,000 | 19.8 | s | s | 3,000 | 3.1 | 6,000 | 6.3 | 67,000 | 69.8 | s | s | s | s |

* = estimate < 500; s = suppressed for reasons of confidentiality and/or reliability.

Note(s)

Hispanic may be any race; American Indian or Alaska Native, Asian, black or African American, Native Hawaiian or Other Pacific Islander, white, and more than one race refer to individuals who are not of Hispanic origin. Detail may not add to total because of rounding. Numbers are rounded to the nearest 1,000. Percentages are based on rounded numbers.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, National Survey of College Graduates (NSCG) (2015), <https://www.nsf.gov/statistics/srvygrads/>.

Science and Engineering Indicators 2018