

Table A-3. Educational attainment of employed U.S. scientists and engineers, by level and field of highest degree and broad occupation category: 1995

| Level and field of highest degree | All occupations, total | | Occupation | | | | | |
|--|------------------------|---------|---------------------------------|--------------------------------|------------------------------------|----------------------------------|-----------|-----------------------------|
| | Number | Percent | Computer/ math scientists | Life/ related scientists | Physical/ related scientists | Social/ related scientists | Engineers | Non-S&E occupa- tions |
| | | | Percent | | | | | |
| All degree levels, total¹ | | | | | | | | |
| All degree fields, total | 10,114,500 | 100.0% | 9.4% | 3.0% | 2.7% | 3.1% | 13.2% | 68.5% |
| S&E degree fields, total | 7,333,100 | 100.0 | 9.5 | 3.5 | 3.6 | 3.6 | 15.8 | 64.1 |
| Sciences, total | 5,476,100 | 100.0 | 10.1 | 4.6 | 4.5 | 4.7 | 2.4 | 73.7 |
| Computer/math sciences, total | 955,400 | 100.0 | 42.5 | 0.1 | 0.5 | 0.2 | 3.3 | 53.3 |
| Computer/information sciences | 506,100 | 100.0 | 53.7 | 0.1 | 0.1 | 0.1 | 2.8 | 43.3 |
| Mathematical sciences | 449,400 | 100.0 | 30.0 | 0.2 | 1.0 | 0.3 | 3.9 | 64.5 |
| Life/related sciences, total | 1,127,800 | 100.0 | 1.9 | 19.3 | 3.0 | 0.3 | 1.9 | 73.6 |
| Agricultural/food sciences | 215,700 | 100.0 | 1.3 | 17.6 | 1.7 | 0.2 | 1.1 | 78.1 |
| Biological sciences | 825,600 | 100.0 | 1.9 | 20.2 | 2.8 | 0.3 | 1.7 | 73.1 |
| Environmental life sciences | 86,600 | 100.0 | 3.8 | 14.4 | 7.9 | 0.6 | 5.8 | 67.4 |
| Physical/related sciences, total | 605,200 | 100.0 | 6.1 | 3.2 | 33.1 | 0.2 | 9.1 | 48.3 |
| Chemistry, except biochemistry | 267,400 | 100.0 | 3.3 | 5.1 | 36.2 | 0.2 | 5.7 | 49.4 |
| Earth science, geology and oceanography | 145,400 | 100.0 | 3.4 | 1.0 | 42.6 | 0.1 | 4.9 | 48.0 |
| Physics/astronomy | 140,700 | 100.0 | 14.6 | 2.1 | 27.9 | 0.3 | 18.9 | 36.4 |
| Other physical sciences | 51,700 | 100.0 | 5.2 | 2.7 | 5.4 | S | 11.2 | 75.4 |
| Social/related sciences, total | 2,787,700 | 100.0 | 3.2 | 0.5 | 0.3 | 9.1 | 0.7 | 86.2 |
| Economics | 390,900 | 100.0 | 4.3 | 0.8 | 0.5 | 7.6 | 0.9 | 85.9 |
| Political/related sciences | 524,900 | 100.0 | 3.2 | 0.2 | 0.1 | 4.9 | 0.9 | 90.8 |
| Psychology | 1,038,400 | 100.0 | 2.9 | 0.8 | 0.1 | 15.3 | 0.7 | 80.3 |
| Sociology/anthropology | 523,300 | 100.0 | 2.5 | 0.3 | 0.1 | 5.8 | 0.5 | 90.8 |
| Other social sciences | 310,100 | 100.0 | 4.0 | 0.3 | 1.1 | 2.6 | 1.1 | 90.8 |
| Engineering, total | 1,856,900 | 100.0 | 7.8 | 0.2 | 0.8 | 0.1 | 55.4 | 35.7 |
| Aerospace/related engineering | 76,200 | 100.0 | 5.5 | S | 0.5 | S | 46.5 | 47.4 |
| Chemical engineering | 135,400 | 100.0 | 3.5 | 0.4 | 2.7 | 0.1 | 58.2 | 35.0 |
| Civil/architectural engineering | 312,200 | 100.0 | 1.6 | S | 0.2 | S | 61.8 | 36.3 |
| Electrical/related engineering | 560,800 | 100.0 | 17.0 | 0.1 | 0.3 | 0.1 | 53.0 | 29.5 |
| Industrial engineering | 104,000 | 100.0 | 8.9 | 0.1 | 0.1 | 0.1 | 37.1 | 53.7 |
| Mechanical engineering | 375,400 | 100.0 | 3.6 | 0.1 | 0.3 | 0.1 | 64.8 | 31.2 |
| Other engineering | 293,000 | 100.0 | 4.6 | 0.7 | 2.4 | 0.1 | 48.4 | 43.6 |
| Non-S&E degrees, total | 2,781,400 | 100.0 | 9.0 | 1.8 | 0.5 | 2.0 | 6.5 | 80.2 |
| Business/management | 681,900 | 100.0 | 17.9 | 0.9 | 0.5 | 1.2 | 12.3 | 67.2 |
| Education | 424,100 | 100.0 | 8.5 | 1.5 | 0.6 | 3.7 | 2.0 | 83.8 |
| Health | 562,000 | 100.0 | 0.7 | 4.3 | 0.6 | 0.6 | 0.3 | 93.5 |
| Other non-S&E | 1,113,400 | 100.0 | 7.9 | 1.1 | 0.3 | 2.7 | 7.9 | 80.1 |

See explanatory information, if any, and SOURCE at end of table.

Table A-3. Educational attainment of employed U.S. scientists and engineers, by level and field of highest degree and broad occupation category: 1995

| Level and field of highest degree | All occupations, total | | Occupation | | | | | |
|--|------------------------|---------|---------------------------------|--------------------------------|------------------------------------|----------------------------------|-----------|-----------------------------|
| | Number | Percent | Computer/ math scientists | Life/ related scientists | Physical/ related scientists | Social/ related scientists | Engineers | Non-S&E occupa- tions |
| | | | Percent | | | | | |
| Bachelor's, total | | | | | | | | |
| All degree fields, total | 5,926,700 | 100.0% | 10.6% | 2.1% | 2.2% | 1.0% | 15.3% | 68.9% |
| S&E degree fields, total | 5,408,600 | 100.0 | 8.7 | 2.0 | 2.3 | 1.1 | 15.2 | 70.8 |
| Sciences, total | 4,047,800 | 100.0 | 9.4 | 2.6 | 2.9 | 1.4 | 2.2 | 81.6 |
| Computer/math sciences, total | 687,700 | 100.0 | 39.0 | 0.1 | 0.5 | 0.1 | 2.7 | 57.5 |
| Computer/information sciences | 362,800 | 100.0 | 53.1 | S | 0.1 | S | 2.1 | 44.7 |
| Mathematical sciences | 324,900 | 100.0 | 23.4 | 0.2 | 1.0 | 0.3 | 3.4 | 71.8 |
| Life/related sciences, total | 820,200 | 100.0 | 2.0 | 10.5 | 2.7 | 0.2 | 1.8 | 82.9 |
| Agricultural/food sciences | 171,200 | 100.0 | 1.2 | 10.9 | 1.2 | 0.2 | 1.1 | 85.5 |
| Biological sciences | 583,000 | 100.0 | 2.0 | 10.2 | 2.8 | 0.2 | 1.9 | 82.9 |
| Environmental life sciences | 65,900 | 100.0 | 3.9 | 11.7 | 5.5 | S | 3.3 | 75.7 |
| Physical/related sciences, total | 374,500 | 100.0 | 6.4 | 2.6 | 22.8 | 0.2 | 9.6 | 58.3 |
| Chemistry, except biochemistry | 171,700 | 100.0 | 3.8 | 4.1 | 26.8 | 0.2 | 6.0 | 59.0 |
| Earth science, geology and oceanography | 95,400 | 100.0 | 3.5 | 0.5 | 31.4 | 0.1 | 4.9 | 59.5 |
| Physics/astronomy | 68,000 | 100.0 | 18.4 | 2.4 | 12.2 | 0.3 | 23.8 | 42.9 |
| Other physical sciences | 39,400 | 100.0 | 4.3 | 1.8 | 2.3 | S | 12.2 | 79.2 |
| Social/related sciences, total | 2,165,400 | 100.0 | 3.3 | 0.4 | 0.2 | 2.4 | 0.8 | 92.9 |
| Economics | 329,200 | 100.0 | 4.3 | 0.6 | 0.5 | 2.1 | 1.0 | 91.4 |
| Political/related sciences | 448,700 | 100.0 | 3.2 | 0.2 | S | 1.8 | 0.9 | 93.8 |
| Psychology | 690,700 | 100.0 | 3.3 | 0.7 | 0.1 | 3.7 | 0.8 | 91.5 |
| Sociology/anthropology | 461,900 | 100.0 | 2.4 | 0.3 | 0.2 | 2.2 | 0.5 | 94.5 |
| Other social sciences | 234,800 | 100.0 | 3.2 | 0.2 | 0.8 | 0.7 | 1.1 | 94.1 |
| Engineering, total | 1,360,800 | 100.0 | 6.8 | 0.1 | 0.5 | 0.1 | 53.9 | 38.6 |
| Aerospace/related engineering | 54,700 | 100.0 | 5.7 | S | 0.4 | S | 43.1 | 50.8 |
| Chemical engineering | 100,500 | 100.0 | 3.3 | 0.4 | 2.6 | 0.2 | 56.9 | 36.6 |
| Civil/architectural engineering | 237,400 | 100.0 | 1.4 | S | 0.1 | S | 60.4 | 38.0 |
| Electrical/related engineering | 402,500 | 100.0 | 15.6 | 0.1 | 0.2 | S | 52.2 | 31.9 |
| Industrial engineering | 81,200 | 100.0 | 6.0 | S | 0.1 | 0.1 | 35.5 | 58.3 |
| Mechanical engineering | 302,700 | 100.0 | 3.0 | 0.1 | 0.1 | 0.1 | 63.6 | 33.2 |
| Other engineering | 181,800 | 100.0 | 3.2 | 0.4 | 1.3 | 0.1 | 43.2 | 51.8 |
| Non-S&E degrees, total | 518,200 | 100.0 | 29.7 | 2.9 | 1.1 | 0.9 | 16.9 | 48.5 |
| Business/management | 164,300 | 100.0 | 43.4 | 2.3 | 0.3 | 0.4 | 9.1 | 44.5 |
| Education | 52,700 | 100.0 | 30.4 | 2.3 | 1.5 | S | 8.3 | 57.7 |
| Health | 56,700 | 100.0 | 3.4 | 5.8 | 2.8 | 0.2 | 1.2 | 86.6 |
| Other non-S&E | 244,500 | 100.0 | 26.5 | 2.9 | 1.1 | 1.6 | 27.5 | 40.4 |

See explanatory information, if any, and SOURCE at end of table.

Table A-3. Educational attainment of employed U.S. scientists and engineers, by level and field of highest degree and broad occupation category: 1995

| Level and field of highest degree | All occupations, total | | Occupation | | | | | |
|--|------------------------|---------|---------------------------------|--------------------------------|------------------------------------|----------------------------------|-----------|-----------------------------|
| | Number | Percent | Computer/ math scientists | Life/ related scientists | Physical/ related scientists | Social/ related scientists | Engineers | Non-S&E occupa- tions |
| | | | Percent | | | | | |
| Master's, total | | | | | | | | |
| All degree fields, total | 2,656,800 | 100.0% | 10.1% | 2.4% | 2.5% | 5.1% | 13.5% | 66.4% |
| S&E degree fields, total | 1,359,300 | 100.0 | 13.4 | 3.6 | 4.4 | 7.3 | 19.9 | 51.4 |
| Sciences, total | 953,500 | 100.0 | 14.3 | 5.0 | 5.8 | 10.3 | 3.2 | 61.3 |
| Computer/math sciences, total | 230,700 | 100.0 | 48.0 | 0.2 | 0.4 | 0.3 | 5.2 | 46.1 |
| Computer/information sciences | 132,400 | 100.0 | 54.0 | 0.1 | 0.1 | 0.2 | 4.6 | 41.1 |
| Mathematical sciences | 98,400 | 100.0 | 39.8 | 0.3 | 0.8 | 0.5 | 5.9 | 52.6 |
| Life/related sciences, total | 149,400 | 100.0 | 2.3 | 28.6 | 4.1 | 0.3 | 3.3 | 61.4 |
| Agricultural/food sciences | 26,900 | 100.0 | 1.9 | 31.6 | 3.3 | S | 1.5 | 61.3 |
| Biological sciences | 106,600 | 100.0 | 2.2 | 29.3 | 2.9 | 0.2 | 2.0 | 63.5 |
| Environmental life sciences | 15,800 | 100.0 | 3.8 | 19.0 | 13.9 | 1.3 | 14.6 | 47.5 |
| Physical/related sciences, total | 112,200 | 100.0 | 7.2 | 2.1 | 41.2 | 0.2 | 10.1 | 39.2 |
| Chemistry, except biochemistry | 34,800 | 100.0 | 2.3 | 4.6 | 46.6 | 0.3 | 8.0 | 38.5 |
| Earth science, geology and oceanography | 34,700 | 100.0 | 4.0 | 1.4 | 58.2 | S | 5.8 | 30.5 |
| Physics/astronomy | 32,000 | 100.0 | 15.0 | 0.3 | 26.9 | 0.3 | 18.1 | 39.7 |
| Other physical sciences | 10,700 | 100.0 | 9.3 | 2.8 | 12.1 | S | 7.5 | 69.2 |
| Social/related sciences, total | 461,100 | 100.0 | 3.1 | 0.6 | 0.3 | 21.1 | 0.6 | 74.3 |
| Economics | 40,600 | 100.0 | 5.4 | 2.0 | 0.5 | 19.7 | 0.2 | 72.4 |
| Political/related sciences | 60,800 | 100.0 | 3.0 | 0.2 | S | 14.1 | 1.0 | 81.6 |
| Psychology | 259,300 | 100.0 | 2.0 | 0.5 | 0.1 | 27.5 | 0.4 | 69.5 |
| Sociology/anthropology | 39,400 | 100.0 | 3.3 | 0.3 | S | 18.0 | 0.8 | 77.7 |
| Other social sciences | 61,100 | 100.0 | 6.4 | 0.5 | 2.0 | 3.6 | 1.0 | 86.7 |
| Engineering, total | 405,800 | 100.0 | 11.3 | 0.2 | 1.3 | 0.2 | 58.9 | 28.2 |
| Aerospace/related engineering | 17,500 | 100.0 | 5.7 | S | 0.6 | S | 52.0 | 41.7 |
| Chemical engineering | 22,700 | 100.0 | 4.4 | 0.4 | 3.1 | 0.4 | 61.7 | 30.4 |
| Civil/architectural engineering | 66,300 | 100.0 | 2.0 | S | 0.3 | S | 65.6 | 32.0 |
| Electrical/related engineering | 134,700 | 100.0 | 21.1 | 0.1 | 0.4 | 0.4 | 55.1 | 23.1 |
| Industrial engineering | 20,200 | 100.0 | 19.8 | S | S | S | 43.6 | 36.6 |
| Mechanical engineering | 62,000 | 100.0 | 6.6 | S | 0.8 | 0.2 | 69.5 | 22.9 |
| Other engineering | 82,400 | 100.0 | 7.3 | 0.6 | 3.8 | 0.1 | 56.3 | 31.9 |
| Non-S&E degrees, total | 1,297,500 | 100.0 | 6.5 | 1.1 | 0.5 | 2.8 | 6.8 | 82.2 |
| Business/management | 495,500 | 100.0 | 9.9 | 0.5 | 0.6 | 1.0 | 13.8 | 74.2 |
| Education | 309,500 | 100.0 | 5.3 | 1.2 | 0.4 | 3.4 | 1.1 | 88.5 |
| Health | 82,600 | 100.0 | 2.1 | 5.0 | 2.3 | 3.4 | 0.8 | 86.3 |
| Other non-S&E | 409,900 | 100.0 | 4.3 | 1.1 | 0.2 | 4.2 | 4.0 | 86.2 |

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Table A-3. Educational attainment of employed U.S. scientists and engineers, by level and field of highest degree and broad occupation category: 1995

| Level and field of highest degree | All occupations, total | | Occupation | | | | | |
|--|------------------------|---------|---------------------------------|--------------------------------|------------------------------------|----------------------------------|-----------|-----------------------------|
| | Number | Percent | Computer/ math scientists | Life/ related scientists | Physical/ related scientists | Social/ related scientists | Engineers | Non-S&E occupa- tions |
| | | | Percent | | | | | |
| Doctorate, total | | | | | | | | |
| All degree fields, total | 689,900 | 100.0% | 7.8% | 14.8% | 11.4% | 16.4% | 10.1% | 39.5% |
| S&E degree fields, total | 557,400 | 100.0 | 8.1 | 18.0 | 14.0 | 18.2 | 11.9 | 29.9 |
| Sciences, total | 467,000 | 100.0 | 8.1 | 21.3 | 16.1 | 21.6 | 2.3 | 30.6 |
| Computer/math sciences, total | 36,900 | 100.0 | 74.0 | 0.8 | 0.8 | 0.3 | 3.3 | 20.9 |
| Computer/information sciences | 10,800 | 100.0 | 69.4 | 1.9 | S | 0.9 | 2.8 | 25.0 |
| Mathematical sciences | 26,100 | 100.0 | 75.9 | 0.4 | 1.1 | 0.4 | 3.4 | 19.2 |
| Life/related sciences, total | 157,200 | 100.0 | 1.5 | 56.6 | 3.2 | 0.8 | 0.8 | 37.2 |
| Agricultural/food sciences | 17,400 | 100.0 | 1.1 | 62.6 | 4.0 | 0.6 | 1.1 | 30.5 |
| Biological sciences | 135,300 | 100.0 | 1.4 | 56.3 | 2.4 | 0.7 | 0.6 | 38.4 |
| Environmental life sciences | 4,500 | 100.0 | 2.2 | 40.0 | 22.2 | 6.7 | 4.4 | 24.4 |
| Physical/related sciences, total | 118,100 | 100.0 | 4.1 | 6.0 | 58.4 | 0.3 | 6.3 | 24.9 |
| Chemistry, except biochemistry | 60,800 | 100.0 | 2.1 | 8.4 | 56.9 | 0.2 | 3.8 | 28.8 |
| Earth science, geology and oceanography | 15,300 | 100.0 | 2.0 | 2.6 | 75.8 | 0.7 | 2.6 | 15.7 |
| Physics/astronomy | 40,400 | 100.0 | 7.9 | 3.0 | 55.2 | 0.2 | 11.1 | 22.5 |
| Other physical sciences | 1,600 | 100.0 | S | 25.0 | 37.5 | S | 12.5 | 25.0 |
| Social/related sciences, total | 154,800 | 100.0 | 2.3 | 1.9 | 0.6 | 64.1 | 0.5 | 30.7 |
| Economics | 21,100 | 100.0 | 1.4 | 1.4 | 0.5 | 69.7 | S | 27.0 |
| Political/related sciences | 15,400 | 100.0 | 1.9 | S | 0.6 | 57.8 | S | 39.0 |
| Psychology | 82,100 | 100.0 | 1.6 | 2.4 | 0.1 | 71.0 | 0.5 | 24.2 |
| Sociology/anthropology | 22,100 | 100.0 | 2.3 | 1.4 | S | 59.3 | 0.5 | 36.7 |
| Other social sciences | 14,100 | 100.0 | 7.8 | 2.1 | 3.5 | 30.5 | 0.7 | 55.3 |
| Engineering, total | 90,300 | 100.0 | 8.0 | 1.3 | 3.1 | 0.1 | 61.6 | 25.8 |
| Aerospace/related engineering | 4,000 | 100.0 | 2.5 | S | 2.5 | S | 67.5 | 25.0 |
| Chemical engineering | 12,100 | 100.0 | 3.3 | 0.8 | 2.5 | S | 63.6 | 30.6 |
| Civil/architectural engineering | 8,500 | 100.0 | 3.5 | S | 2.4 | S | 72.9 | 21.2 |
| Electrical/related engineering | 23,600 | 100.0 | 16.5 | 0.8 | 1.3 | S | 55.1 | 25.8 |
| Industrial engineering | 2,600 | 100.0 | 15.4 | 3.8 | S | S | 38.5 | 42.3 |
| Mechanical engineering | 10,800 | 100.0 | 2.8 | 0.9 | 1.9 | S | 72.2 | 21.3 |
| Other engineering | 28,700 | 100.0 | 6.3 | 2.4 | 5.9 | 0.3 | 59.6 | 25.4 |
| Non-S&E degrees, total | 132,600 | 100.0 | 6.5 | 1.3 | 0.5 | 8.7 | 2.6 | 80.2 |
| Business/management | 18,200 | 100.0 | 9.3 | S | S | 12.1 | 2.7 | 75.8 |
| Education | 55,600 | 100.0 | 7.0 | 2.2 | 1.3 | 8.6 | 0.9 | 79.9 |
| Health | S | S | S | S | S | S | S | S |
| Other non-S&E | 58,700 | 100.0% | 5.3 | 0.9 | S | 7.8 | 4.1 | 82.1% |

1 Includes professional degrees

NOTES: The term "Scientists and Engineers" (S&Es) includes all persons who have ever received a bachelor's degree or higher in a science or engineering (S&E) field, plus persons holding a non-S&E bachelor's or higher degree who were employed in a S&E occupation during either the 1993 or 1995 SESTAT surveys. Figures are rounded to nearest hundred. Details may not add to total because of rounding.

KEY: S = Suppressed for reasons of confidentiality and/or data reliability

SOURCE: National Science Foundation/Science Resources Studies Division, 1995 SESTAT (Scientists and Engineers Statistical Data System)