

**Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1997**

| Level and field of highest degree, and citizenship | Employed S&Es, total | Sector of employment |                          |                               |            |
|--|----------------------|----------------------|--------------------------|-------------------------------|------------|
|  |                      | Business/industry    | 4-yr. College/university | Other educational institution | Government |
| <b>All degree levels<sup>1</sup></b>               |                      |                      |                          |                               |            |
| <b>All degree fields, total</b> .....              | 10,585,600           | 7,264,900            | 940,600                  | 1,012,900                     | 1,367,300  |
| U.S. citizen, total <sup>2</sup> .....             | 10,213,500           | 7,001,000            | 864,400                  | 997,600                       | 1,350,600  |
| Native .....                                       | 9,379,100            | 6,405,500            | 781,400                  | 951,900                       | 1,240,400  |
| Naturalized .....                                  | 834,400              | 595,500              | 83,000                   | 45,700                        | 110,300    |
| Non-U.S. citizen, total <sup>3</sup> .....         | 372,100              | 263,900              | 76,200                   | 15,300                        | 16,600     |
| Permanent resident .....                           | 299,900              | 219,800              | 50,800                   | 14,200                        | 15,100     |
| Temporary resident .....                           | 72,200               | 44,100               | 25,400                   | 1,100                         | 1,500      |
| <b>S&amp;E degree fields, total</b> .....          | 7,704,000            | 5,330,200            | 682,900                  | 661,600                       | 1,029,200  |
| U.S. citizen, total <sup>2</sup> .....             | 7,385,900            | 5,103,100            | 617,900                  | 650,700                       | 1,014,300  |
| Native .....                                       | 6,734,400            | 4,631,300            | 556,200                  | 620,300                       | 926,700    |
| Naturalized .....                                  | 651,500              | 471,800              | 61,700                   | 30,400                        | 87,600     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 318,000              | 227,100              | 65,100                   | 10,900                        | 14,900     |
| Permanent resident .....                           | 249,200              | 185,100              | 40,600                   | 10,100                        | 13,400     |
| Temporary resident .....                           | 68,800               | 42,000               | 24,500                   | 800                           | 1,500      |
| <b>Sciences, total</b> .....                       | 5,794,700            | 3,768,600            | 599,700                  | 641,300                       | 785,200    |
| U.S. citizen, total <sup>2</sup> .....             | 5,590,000            | 3,634,900            | 548,500                  | 631,500                       | 775,200    |
| Native .....                                       | 5,200,000            | 3,368,900            | 499,600                  | 602,400                       | 729,100    |
| Naturalized .....                                  | 390,000              | 266,000              | 48,800                   | 29,000                        | 46,100     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 204,700              | 133,700              | 51,300                   | 9,800                         | 9,900      |
| Permanent resident .....                           | 164,000              | 111,200              | 34,700                   | 9,000                         | 9,100      |
| Temporary resident .....                           | 40,700               | 22,500               | 16,500                   | 800                           | 900        |
| <b>Computer/math sciences, total</b> .....         | 1,003,300            | 756,100              | 65,700                   | 99,600                        | 81,900     |
| U.S. citizen, total <sup>2</sup> .....             | 942,400              | 707,800              | 56,200                   | 97,500                        | 80,900     |
| Native .....                                       | 838,300              | 623,100              | 50,300                   | 92,800                        | 72,200     |
| Naturalized .....                                  | 104,100              | 84,700               | 5,900                    | 4,700                         | 8,700      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 60,900               | 48,300               | 9,500                    | 2,100                         | 900        |
| Permanent resident .....                           | 45,400               | 37,100               | 5,500                    | 1,900                         | 900        |
| Temporary resident .....                           | 15,500               | 11,200               | 4,100                    | 100                           | S          |
| <b>Life/related sciences, total</b> .....          | 1,204,700            | 720,700              | 202,600                  | 123,000                       | 158,400    |
| U.S. citizen, total <sup>2</sup> .....             | 1,163,300            | 701,400              | 184,400                  | 121,100                       | 156,500    |
| Native .....                                       | 1,077,800            | 651,100              | 165,100                  | 115,300                       | 146,300    |
| Naturalized .....                                  | 85,500               | 50,300               | 19,300                   | 5,800                         | 10,200     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 41,300               | 19,300               | 18,200                   | 1,900                         | 1,900      |
| Permanent resident .....                           | 34,300               | 17,400               | 13,500                   | 1,800                         | 1,500      |
| Temporary resident .....                           | 7,100                | 1,900                | 4,700                    | 100                           | 400        |
| <b>Physical/related sciences, total</b> .....      | 619,200              | 417,300              | 90,100                   | 38,100                        | 73,700     |
| U.S. citizen, total <sup>2</sup> .....             | 581,100              | 392,700              | 79,000                   | 37,800                        | 71,600     |
| Native .....                                       | 521,200              | 351,800              | 70,600                   | 35,100                        | 63,700     |
| Naturalized .....                                  | 60,000               | 40,900               | 8,500                    | 2,700                         | 7,900      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 38,000               | 24,600               | 11,000                   | 300                           | 2,100      |
| Permanent resident .....                           | 30,900               | 21,500               | 7,200                    | 200                           | 2,000      |
| Temporary resident .....                           | 7,100                | 3,000                | 3,900                    | 100                           | 100        |
| <b>Social/related sciences, total</b> .....        | 2,967,600            | 1,874,500            | 241,300                  | 380,600                       | 471,200    |
| U.S. citizen, total <sup>2</sup> .....             | 2,903,100            | 1,832,900            | 228,800                  | 375,100                       | 466,200    |
| Native .....                                       | 2,762,600            | 1,742,800            | 213,700                  | 359,200                       | 446,900    |
| Naturalized .....                                  | 140,400              | 90,100               | 15,100                   | 15,900                        | 19,300     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 64,500               | 41,600               | 12,500                   | 5,500                         | 5,000      |
| Permanent resident .....                           | 53,400               | 35,100               | 8,600                    | 5,100                         | 4,600      |
| Temporary resident .....                           | 11,100               | 6,400                | 3,900                    | 500                           | 300        |

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

**Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1997**

| Level and field of highest degree, and citizenship | Employed S&Es, total | Sector of employment |                          |                               |            |
|--|----------------------|----------------------|--------------------------|-------------------------------|------------|
|  |                      | Business/industry    | 4-yr. College/university | Other educational institution | Government |
| <b>All degree levels<sup>1</sup> — continued</b>   |                      |                      |                          |                               |            |
| <b>Engineering, total</b> .....                    | 1,909,200            | 1,561,600            | 83,200                   | 20,300                        | 244,100    |
| U.S. citizen, total <sup>2</sup> .....             | 1,795,900            | 1,468,200            | 69,400                   | 19,200                        | 239,100    |
| Native .....                                       | 1,534,400            | 1,262,400            | 56,500                   | 17,900                        | 197,600    |
| Naturalized .....                                  | 261,500              | 205,800              | 12,900                   | 1,400                         | 41,500     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 113,300              | 93,400               | 13,800                   | 1,100                         | 5,000      |
| Permanent resident .....                           | 85,200               | 74,000               | 5,900                    | 1,100                         | 4,300      |
| Temporary resident .....                           | 28,100               | 19,500               | 7,900                    | S                             | 700        |
| <b>Non-S&amp;E degree fields, total</b> .....      | 2,881,700            | 1,934,700            | 257,700                  | 351,300                       | 338,000    |
| U.S. citizen, total <sup>2</sup> .....             | 2,827,600            | 1,897,900            | 246,500                  | 346,900                       | 336,300    |
| Native .....                                       | 2,644,700            | 1,774,200            | 225,200                  | 331,600                       | 313,700    |
| Naturalized .....                                  | 182,900              | 123,700              | 21,300                   | 15,300                        | 22,600     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 54,100               | 36,800               | 11,200                   | 4,400                         | 1,700      |
| Permanent resident .....                           | 50,700               | 34,600               | 10,200                   | 4,100                         | 1,700      |
| Temporary resident .....                           | 3,300                | 2,100                | 900                      | 300                           | S          |
| <b>Bachelor's</b>                                  |                      |                      |                          |                               |            |
| <b>All degree fields, total</b> .....              | 6,193,700            | 4,582,200            | 317,600                  | 463,200                       | 830,700    |
| U.S. citizen, total <sup>2</sup> .....             | 6,049,700            | 4,466,900            | 303,700                  | 455,700                       | 823,500    |
| Native .....                                       | 5,603,800            | 4,127,800            | 280,100                  | 436,000                       | 759,900    |
| Naturalized .....                                  | 445,900              | 339,100              | 23,600                   | 19,600                        | 63,600     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 144,000              | 115,300              | 13,800                   | 7,600                         | 7,300      |
| Permanent resident .....                           | 125,600              | 103,200              | 8,000                    | 7,100                         | 7,300      |
| Temporary resident .....                           | 18,400               | 12,100               | 5,900                    | 500                           | S          |
| <b>S&amp;E degree fields, total</b> .....          | 5,683,700            | 4,177,500            | 294,000                  | 441,500                       | 770,700    |
| U.S. citizen, total <sup>2</sup> .....             | 5,548,600            | 4,069,500            | 280,800                  | 434,900                       | 763,500    |
| Native .....                                       | 5,138,200            | 3,758,400            | 259,200                  | 416,000                       | 704,600    |
| Naturalized .....                                  | 410,400              | 311,100              | 21,600                   | 18,900                        | 58,900     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 135,100              | 108,000              | 13,200                   | 6,600                         | 7,300      |
| Permanent resident .....                           | 117,000              | 96,000               | 7,600                    | 6,100                         | 7,300      |
| Temporary resident .....                           | 18,100               | 12,100               | 5,600                    | 500                           | S          |
| <b>Sciences, total</b> .....                       | 4,303,400            | 3,022,100            | 264,100                  | 425,900                       | 591,400    |
| U.S. citizen, total <sup>2</sup> .....             | 4,213,000            | 2,953,200            | 253,200                  | 419,800                       | 586,800    |
| Native .....                                       | 3,961,600            | 2,767,500            | 235,600                  | 401,900                       | 556,600    |
| Naturalized .....                                  | 251,400              | 185,600              | 17,600                   | 18,000                        | 30,200     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 90,500               | 68,900               | 10,800                   | 6,100                         | 4,600      |
| Permanent resident .....                           | 78,200               | 60,900               | 7,000                    | 5,600                         | 4,600      |
| Temporary resident .....                           | 12,300               | 8,000                | 3,800                    | 400                           | S          |
| <b>Computer/math sciences, total</b> .....         | 721,600              | 568,700              | 26,300                   | 64,100                        | 62,500     |
| U.S. citizen, total <sup>2</sup> .....             | 696,400              | 547,300              | 24,300                   | 62,800                        | 62,100     |
| Native .....                                       | 630,300              | 491,500              | 22,800                   | 60,100                        | 55,900     |
| Naturalized .....                                  | 66,200               | 55,800               | 1,500                    | 2,700                         | 6,200      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 25,200               | 21,400               | 2,000                    | 1,300                         | 500        |
| Permanent resident .....                           | 21,200               | 18,500               | 1,000                    | 1,300                         | 500        |
| Temporary resident .....                           | 3,900                | 2,900                | 1,000                    | S                             | S          |

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

**Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1997**

| Level and field of highest degree, and citizenship | Employed S&Es, total | Sector of employment |                          |                               |            |
|--|----------------------|----------------------|--------------------------|-------------------------------|------------|
|  |                      | Business/industry    | 4-yr. College/university | Other educational institution | Government |
| <b>Bachelor's — continued</b>                      |                      |                      |                          |                               |            |
| <b>Life/related sciences, total</b> .....          | 884,500              | 593,100              | 89,100                   | 87,800                        | 114,500    |
| U.S. citizen, total <sup>2</sup> .....             | 868,500              | 583,200              | 85,000                   | 86,500                        | 113,800    |
| Native .....                                       | 817,300              | 550,100              | 77,000                   | 82,900                        | 107,300    |
| Naturalized .....                                  | 51,200               | 33,100               | 7,900                    | 3,700                         | 6,500      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 16,000               | 9,800                | 4,100                    | 1,300                         | 800        |
| Permanent resident .....                           | 14,000               | 9,100                | 2,800                    | 1,300                         | 800        |
| Temporary resident .....                           | 2,000                | 700                  | 1,300                    | S                             | S          |
| <b>Physical/related sciences, total</b> .....      | 381,900              | 283,600              | 33,200                   | 21,200                        | 43,900     |
| U.S. citizen, total <sup>2</sup> .....             | 369,100              | 273,300              | 31,500                   | 21,100                        | 43,200     |
| Native .....                                       | 337,900              | 249,300              | 29,900                   | 19,600                        | 39,000     |
| Naturalized .....                                  | 31,200               | 24,000               | 1,600                    | 1,400                         | 4,300      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 12,800               | 10,400               | 1,700                    | 100                           | 600        |
| Permanent resident .....                           | 10,400               | 9,100                | 600                      | 100                           | 600        |
| Temporary resident .....                           | 2,400                | 1,300                | 1,100                    | S                             | S          |
| <b>Social/related sciences, total</b> .....        | 2,315,500            | 1,576,700            | 115,500                  | 252,800                       | 370,500    |
| U.S. citizen, total <sup>2</sup> .....             | 2,279,000            | 1,549,400            | 112,500                  | 249,400                       | 367,700    |
| Native .....                                       | 2,176,200            | 1,476,600            | 105,900                  | 239,300                       | 354,400    |
| Naturalized .....                                  | 102,800              | 72,800               | 6,600                    | 10,100                        | 13,300     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 36,500               | 27,300               | 3,000                    | 3,400                         | 2,800      |
| Permanent resident .....                           | 32,600               | 24,200               | 2,600                    | 3,000                         | 2,800      |
| Temporary resident .....                           | 4,000                | 3,100                | 400                      | 400                           | S          |
| <b>Engineering, total</b> .....                    | 1,380,300            | 1,155,400            | 29,900                   | 15,600                        | 179,300    |
| U.S. citizen, total <sup>2</sup> .....             | 1,335,600            | 1,116,300            | 27,600                   | 15,100                        | 176,700    |
| Native .....                                       | 1,176,600            | 990,900              | 23,500                   | 14,100                        | 148,000    |
| Naturalized .....                                  | 159,100              | 125,400              | 4,000                    | 900                           | 28,700     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 44,600               | 39,100               | 2,400                    | 500                           | 2,600      |
| Permanent resident .....                           | 38,800               | 35,100               | 600                      | 500                           | 2,600      |
| Temporary resident .....                           | 5,800                | 4,100                | 1,800                    | S                             | S          |
| <b>Non-S&amp;E degree fields, total</b> .....      | 510,000              | 404,600              | 23,600                   | 21,800                        | 60,000     |
| U.S. citizen, total <sup>2</sup> .....             | 501,100              | 397,400              | 22,900                   | 20,800                        | 60,000     |
| Native .....                                       | 465,600              | 369,300              | 20,900                   | 20,000                        | 55,300     |
| Naturalized .....                                  | 35,500               | 28,000               | 2,000                    | 700                           | 4,700      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 8,900                | 7,200                | 700                      | 1,000                         | S          |
| Permanent resident .....                           | 8,600                | 7,200                | 300                      | 1,000                         | S          |
| Temporary resident .....                           | 300                  | S                    | 300                      | S                             | S          |
| <b>Master's</b>                                    |                      |                      |                          |                               |            |
| <b>All degree fields, total</b> .....              | 2,819,800            | 1,736,000            | 219,300                  | 492,100                       | 372,500    |
| U.S. citizen, total <sup>2</sup> .....             | 2,678,600            | 1,629,100            | 196,600                  | 486,500                       | 366,400    |
| Native .....                                       | 2,435,400            | 1,452,100            | 183,200                  | 465,200                       | 334,800    |
| Naturalized .....                                  | 243,200              | 177,000              | 13,400                   | 21,300                        | 31,500     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 141,200              | 106,900              | 22,700                   | 5,600                         | 6,100      |
| Permanent resident .....                           | 99,800               | 80,600               | 9,100                    | 5,100                         | 5,100      |
| Temporary resident .....                           | 41,400               | 26,300               | 13,600                   | 500                           | 1,000      |

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

**Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1997**

| Level and field of highest degree, and citizenship | Employed S&Es, total | Sector of employment |                          |                               |            |
|--|----------------------|----------------------|--------------------------|-------------------------------|------------|
|  |                      | Business/industry    | 4-yr. College/university | Other educational institution | Government |
| <b>Master's — continued</b>                        |                      |                      |                          |                               |            |
| <b>S&amp;E degree fields, total</b> .....          | 1,431,600            | 898,400              | 133,200                  | 199,200                       | 200,900    |
| U.S. citizen, total <sup>2</sup> .....             | 1,317,500            | 813,700              | 112,000                  | 196,100                       | 195,700    |
| Native .....                                       | 1,159,200            | 695,400              | 102,200                  | 186,800                       | 174,800    |
| Naturalized .....                                  | 158,300              | 118,300              | 9,800                    | 9,300                         | 20,900     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 114,200              | 84,600               | 21,200                   | 3,100                         | 5,200      |
| Permanent resident .....                           | 75,100               | 60,400               | 7,700                    | 2,900                         | 4,200      |
| Temporary resident .....                           | 39,000               | 24,300               | 13,500                   | 200                           | 1,000      |
| <b>Sciences, total</b> .....                       | 1,001,000            | 552,800              | 109,100                  | 195,200                       | 144,000    |
| U.S. citizen, total <sup>2</sup> .....             | 936,400              | 508,900              | 94,500                   | 192,500                       | 140,500    |
| Native .....                                       | 856,600              | 455,000              | 87,800                   | 183,400                       | 130,500    |
| Naturalized .....                                  | 79,700               | 53,900               | 6,700                    | 9,100                         | 10,000     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 64,600               | 43,900               | 14,500                   | 2,700                         | 3,500      |
| Permanent resident .....                           | 43,900               | 32,100               | 6,200                    | 2,500                         | 3,100      |
| Temporary resident .....                           | 20,800               | 11,800               | 8,300                    | 200                           | 400        |
| <b>Computer/math sciences, total</b> .....         | 244,700              | 174,100              | 18,400                   | 34,400                        | 17,700     |
| U.S. citizen, total <sup>2</sup> .....             | 216,600              | 150,500              | 15,000                   | 33,800                        | 17,300     |
| Native .....                                       | 184,400              | 123,400              | 14,000                   | 32,100                        | 15,000     |
| Naturalized .....                                  | 32,200               | 27,100               | 1,100                    | 1,700                         | 2,300      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 28,000               | 23,600               | 3,400                    | 600                           | 400        |
| Permanent resident .....                           | 17,800               | 15,900               | 1,000                    | 500                           | 400        |
| Temporary resident .....                           | 10,200               | 7,800                | 2,300                    | 100                           | S          |
| <b>Life/related sciences, total</b> .....          | 156,600              | 72,900               | 27,700                   | 29,600                        | 26,400     |
| U.S. citizen, total <sup>2</sup> .....             | 148,400              | 69,200               | 23,800                   | 29,400                        | 26,000     |
| Native .....                                       | 136,800              | 62,300               | 22,000                   | 27,800                        | 24,700     |
| Naturalized .....                                  | 11,600               | 6,900                | 1,800                    | 1,600                         | 1,300      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 8,200                | 3,700                | 3,900                    | 200                           | 500        |
| Permanent resident .....                           | 5,700                | 3,100                | 2,100                    | 100                           | 300        |
| Temporary resident .....                           | 2,500                | 500                  | 1,800                    | S                             | 200        |
| <b>Physical/related sciences, total</b> .....      | 114,500              | 70,600               | 14,100                   | 13,400                        | 16,400     |
| U.S. citizen, total <sup>2</sup> .....             | 105,200              | 65,100               | 11,300                   | 13,400                        | 15,500     |
| Native .....                                       | 95,300               | 58,900               | 9,700                    | 12,700                        | 13,900     |
| Naturalized .....                                  | 9,900                | 6,100                | 1,500                    | 700                           | 1,600      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 9,300                | 5,500                | 2,800                    | S                             | 1,000      |
| Permanent resident .....                           | 6,300                | 4,400                | 900                      | S                             | 900        |
| Temporary resident .....                           | 3,100                | 1,100                | 1,900                    | S                             | S          |
| <b>Social/related sciences, total</b> .....        | 485,300              | 235,200              | 48,900                   | 117,800                       | 83,400     |
| U.S. citizen, total <sup>2</sup> .....             | 466,100              | 224,100              | 44,400                   | 115,900                       | 81,700     |
| Native .....                                       | 440,100              | 210,300              | 42,100                   | 110,800                       | 76,900     |
| Naturalized .....                                  | 26,000               | 13,700               | 2,300                    | 5,100                         | 4,800      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 19,100               | 11,100               | 4,500                    | 1,800                         | 1,700      |
| Permanent resident .....                           | 14,200               | 8,700                | 2,200                    | 1,800                         | 1,500      |
| Temporary resident .....                           | 5,000                | 2,500                | 2,300                    | S                             | 200        |

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

**Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1997**

| Level and field of highest degree, and citizenship | Employed S&Es, total | Sector of employment |                          |                               |            |
|--|----------------------|----------------------|--------------------------|-------------------------------|------------|
|  |                      | Business/industry    | 4-yr. College/university | Other educational institution | Government |
| <b>Master's — continued</b>                        |                      |                      |                          |                               |            |
| <b>Engineering, total</b> .....                    | 430,600              | 345,600              | 24,200                   | 4,000                         | 56,900     |
| U.S. citizen, total <sup>2</sup> .....             | 381,100              | 304,900              | 17,500                   | 3,600                         | 55,200     |
| Native .....                                       | 302,500              | 240,400              | 14,400                   | 3,400                         | 44,300     |
| Naturalized .....                                  | 78,600               | 64,400               | 3,100                    | 200                           | 10,900     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 49,500               | 40,700               | 6,700                    | 400                           | 1,700      |
| Permanent resident .....                           | 31,300               | 28,300               | 1,500                    | 400                           | 1,100      |
| Temporary resident .....                           | 18,200               | 12,400               | 5,200                    | S                             | 600        |
| <b>Non-S&amp;E degree fields, total</b> .....      | 1,388,200            | 837,600              | 86,000                   | 292,900                       | 171,600    |
| U.S. citizen, total <sup>2</sup> .....             | 1,361,100            | 815,300              | 84,600                   | 290,400                       | 170,700    |
| Native .....                                       | 1,276,200            | 756,700              | 81,000                   | 278,400                       | 160,100    |
| Naturalized .....                                  | 84,900               | 58,600               | 3,600                    | 12,000                        | 10,600     |
| Non-U.S. citizen, total <sup>3</sup> .....         | 27,100               | 22,200               | 1,400                    | 2,500                         | 900        |
| Permanent resident .....                           | 24,700               | 20,200               | 1,400                    | 2,200                         | 900        |
| Temporary resident .....                           | 2,400                | 2,000                | S                        | 300                           | S          |
| <b>Doctorate</b>                                   |                      |                      |                          |                               |            |
| <b>All degree fields, total</b> .....              | 696,000              | 289,100              | 302,000                  | 39,800                        | 65,100     |
| U.S. citizen, total <sup>2</sup> .....             | 619,700              | 253,200              | 265,900                  | 38,100                        | 62,500     |
| Native .....                                       | 526,500              | 207,200              | 231,800                  | 34,000                        | 53,500     |
| Naturalized .....                                  | 93,100               | 45,900               | 34,100                   | 4,100                         | 9,000      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 76,400               | 35,900               | 36,100                   | 1,700                         | 2,600      |
| Permanent resident .....                           | 64,600               | 30,300               | 30,700                   | 1,500                         | 2,100      |
| Temporary resident .....                           | 11,800               | 5,700                | 5,400                    | 200                           | 500        |
| <b>S&amp;E degree fields, total</b> .....          | 580,300              | 250,100              | 254,500                  | 18,800                        | 56,900     |
| U.S. citizen, total <sup>2</sup> .....             | 511,500              | 215,700              | 223,900                  | 17,500                        | 54,400     |
| Native .....                                       | 429,100              | 173,400              | 193,600                  | 15,400                        | 46,700     |
| Naturalized .....                                  | 82,500               | 42,300               | 30,300                   | 2,100                         | 7,800      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 68,700               | 34,400               | 30,600                   | 1,300                         | 2,400      |
| Permanent resident .....                           | 57,000               | 28,700               | 25,300                   | 1,100                         | 1,900      |
| Temporary resident .....                           | 11,700               | 5,700                | 5,400                    | 200                           | 500        |
| <b>Sciences, total</b> .....                       | 482,000              | 189,600              | 225,400                  | 18,100                        | 49,000     |
| U.S. citizen, total <sup>2</sup> .....             | 432,500              | 168,800              | 199,500                  | 17,000                        | 47,200     |
| Native .....                                       | 373,900              | 142,400              | 175,000                  | 15,100                        | 41,400     |
| Naturalized .....                                  | 58,600               | 26,400               | 24,500                   | 1,800                         | 5,900      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 49,600               | 20,800               | 25,900                   | 1,100                         | 1,800      |
| Permanent resident .....                           | 41,900               | 18,100               | 21,500                   | 900                           | 1,400      |
| Temporary resident .....                           | 7,700                | 2,700                | 4,400                    | 200                           | 400        |
| <b>Computer/math sciences, total</b> .....         | 36,900               | 13,100               | 21,000                   | 1,100                         | 1,600      |
| U.S. citizen, total <sup>2</sup> .....             | 29,300               | 10,000               | 16,900                   | 900                           | 1,600      |
| Native .....                                       | 23,700               | 8,200                | 13,600                   | 600                           | 1,300      |
| Naturalized .....                                  | 5,600                | 1,800                | 3,300                    | 300                           | 300        |
| Non-U.S. citizen, total <sup>3</sup> .....         | 7,600                | 3,100                | 4,200                    | 200                           | 100        |
| Permanent resident .....                           | 6,300                | 2,600                | 3,400                    | 200                           | 100        |
| Temporary resident .....                           | 1,300                | 600                  | 700                      | S                             | S          |

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

**Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1997**

| Level and field of highest degree, and citizenship | Employed S&Es, total | Sector of employment |                          |                               |            |
|--|----------------------|----------------------|--------------------------|-------------------------------|------------|
|  |                      | Business/industry    | 4-yr. College/university | Other educational institution | Government |
| <b>Doctorate — continued</b>                       |                      |                      |                          |                               |            |
| <b>Life/related sciences, total</b> .....          | 162,500              | 54,200               | 85,500                   | 5,600                         | 17,100     |
| U.S. citizen, total <sup>2</sup> .....             | 145,300              | 48,400               | 75,300                   | 5,100                         | 16,400     |
| Native .....                                       | 122,600              | 38,100               | 65,700                   | 4,700                         | 14,000     |
| Naturalized .....                                  | 22,700               | 10,300               | 9,600                    | 500                           | 2,400      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 17,200               | 5,800                | 10,200                   | 500                           | 700        |
| Permanent resident .....                           | 14,600               | 5,200                | 8,500                    | 400                           | 500        |
| Temporary resident .....                           | 2,600                | 600                  | 1,700                    | 100                           | 200        |
| <b>Physical/related sciences, total</b> .....      | 122,200              | 62,700               | 42,700                   | 3,500                         | 13,300     |
| U.S. citizen, total <sup>2</sup> .....             | 106,200              | 54,000               | 36,200                   | 3,300                         | 12,700     |
| Native .....                                       | 87,400               | 43,200               | 30,800                   | 2,700                         | 10,700     |
| Naturalized .....                                  | 18,800               | 10,800               | 5,400                    | 600                           | 2,100      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 15,900               | 8,700                | 6,500                    | 200                           | 500        |
| Permanent resident .....                           | 14,300               | 8,100                | 5,600                    | 100                           | 400        |
| Temporary resident .....                           | 1,700                | 600                  | 900                      | 100                           | 100        |
| <b>Social/related sciences, total</b> .....        | 160,500              | 59,500               | 76,100                   | 7,900                         | 16,900     |
| U.S. citizen, total <sup>2</sup> .....             | 151,600              | 56,500               | 71,100                   | 7,600                         | 16,500     |
| Native .....                                       | 140,200              | 52,900               | 64,900                   | 7,100                         | 15,300     |
| Naturalized .....                                  | 11,400               | 3,600                | 6,200                    | 500                           | 1,100      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 8,900                | 3,100                | 5,000                    | 300                           | 500        |
| Permanent resident .....                           | 6,700                | 2,200                | 3,900                    | 200                           | 400        |
| Temporary resident .....                           | 2,100                | 900                  | 1,200                    | S                             | 100        |
| <b>Engineering, total</b> .....                    | 98,200               | 60,500               | 29,100                   | 700                           | 7,900      |
| U.S. citizen, total <sup>2</sup> .....             | 79,100               | 46,900               | 24,400                   | 600                           | 7,200      |
| Native .....                                       | 55,200               | 31,000               | 18,600                   | 300                           | 5,300      |
| Naturalized .....                                  | 23,900               | 15,900               | 5,800                    | 300                           | 1,900      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 19,200               | 13,600               | 4,700                    | 200                           | 700        |
| Permanent resident .....                           | 15,100               | 10,600               | 3,800                    | 200                           | 600        |
| Temporary resident .....                           | 4,000                | 3,000                | 900                      | S                             | 100        |
| <b>Non-S&amp;E degree fields, total</b> .....      | 115,800              | 39,000               | 47,500                   | 21,000                        | 8,300      |
| U.S. citizen, total <sup>2</sup> .....             | 108,100              | 37,500               | 42,000                   | 20,500                        | 8,100      |
| Native .....                                       | 97,400               | 33,800               | 38,200                   | 18,600                        | 6,800      |
| Naturalized .....                                  | 10,700               | 3,600                | 3,900                    | 1,900                         | 1,200      |
| Non-U.S. citizen, total <sup>3</sup> .....         | 7,700                | 1,600                | 5,500                    | 400                           | 200        |
| Permanent resident .....                           | 7,600                | 1,600                | 5,400                    | 400                           | 200        |
| Temporary resident .....                           | 100                  | S                    | 100                      | S                             | S          |

- 1 Includes professional degrees
- 2 Includes U.S. citizens who did not specify mode of gaining citizenship
- 3 Includes non-citizens who did not specify visa status

**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, 1995 or 1997 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, 1997 SESTAT (Scientists and Engineers Statistical Data System)