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} official OERI position or policy.

\author{
Detailed Statistical Tables
}

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Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences


National Science Foundation

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Characteristics of Doctoral Scientists and Engineers in the United States: 1995
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Detailed Statistical Tables
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R. Keith Wilkinson, Project Officer

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

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\section*{Section I. General Notes}

This report, presents data on the demographic and employment characteristics of the Nation's doctoral scientists and engineers. The data were developed as part of the Longitudinal Doctorate Project. \({ }^{1}\) Current information on the supply and utilization of doctoral personnel in science and engineering reflects the results of the 1995 Survey of Doctorate Recipients (SDR), the twelfth in a biennial series. The population of the 1995 survey includes persons under the age of 76 who hold doctorates in science or engineering from U.S. institutions.

This report provides information on the number of scientists and engineers by demographic characteristics such as citizenship, place of birth, field of degree, and employment-related characteristics such as occupation, sector of employment, median salary, and various labor
force rates. Of further note, some tables in this report include estimates for doctoral scientists and engineers employed in 4-year colleges and universities.

In addition to this section on General Notes, this report includes Detailed Statistical Tables, Technical Notes, and the Survey Instrument. The Detailed Statistical Tables section includes employment and salary detail tables. The Technical Notes section contains information on survey methodology, coverage, concepts, definitions, and sampling errors.

Requests for additional information should be directed to R. Keith Wilkinson, Science and Engineering Personnel Program, Division of Science Resources Studies, National Science Foundation, Arlington, VA. 22230. Telephone: (703) 306-1776.

\footnotetext{
\({ }^{\text {I }}\) The Longitudinal Doctorate Project consists of the Survey of Doctorate Recipients, a biennial survey conducted since 1973, and the Doctorate Work History File, a longitudinal file of data from these surveys.
}

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\begin{tabular}{c|r|r|r|r|r|r|r|r|r} 
Page 1 of 1
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 2. Doctoral scientists and engineers, by occupation and employment status: 1995

*If the respondent was unemployed, occupation of last job was reported.
KEY: \(\quad S=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Page 1 of 2
\begin{tabular}{|c|c|c|c|}
\hline Employment status/field of doctorate & Total & Male & Female \\
\hline All Fields: & & & \\
\hline Total.. & 542,540 & 425,930 & 116,610 \\
\hline Employed full-time... & 456,470 & 363,840 & 92,630 \\
\hline Employed part-time......................................... & 28,310 & 15,650 & 12,670 \\
\hline Unemployed, seeking.. & 7,340 & 5,720 & 1,610 \\
\hline Retired.................. & 40,570 & 36,480 & 4,090 \\
\hline Not employed, not seeking................................ & 9,860 & 4,250 & 5,610 \\
\hline Sciences: & & & \\
\hline Total. & 455,530 & 343,370 & 112,160 \\
\hline Employed full-time......................................... & 380,400 & 291,500 & 88,900 \\
\hline Employed part-time......................................... & 25,730 & 13,390 & 12,350 \\
\hline Unemployed, seeking... & 5,920 & 4,500 & 1,410 \\
\hline Retired.. & 34,450 & 30,390 & 4,060 \\
\hline Not employed, not seeking................................. & 9,040 & 3,590 & 5,440 \\
\hline Computer and mathematical sciences: & & & \\
\hline Total. & 31,740 & 27,730 & 4,010 \\
\hline Employed full-time.......................................... & 28,060 & 24,780 & 3,280 \\
\hline Employed part-time....................................... & 1,190 & 770 & 420 \\
\hline Unemployed, seeking...................................... & 460 & 410 & S \\
\hline Retired.................................................... & 1,620 & 1,510 & 120 \\
\hline Not employed, not seeking............................... & 410 & 260 & 150 \\
\hline Life and related sciences: & & & \\
\hline Total.. & 149,320 & 108,400 & 40,920 \\
\hline Employed full-time.......... & 126,160 & 92,440 & 33,730 \\
\hline Employed part-time... & 6,030 & 3,300 & 2,730 \\
\hline Unemployed, seeking..................................... & 2,230 & 1,560 & 670 \\
\hline Retired.. & 11,410 & 9,840 & 1,570 \\
\hline Not employed, not seeking................................ & 3,490 & 1,730 & 2,220 \\
\hline Physical and related sciences: & & & \\
\hline Total. & 116,550 & 103,880 & 12,680 \\
\hline Employed full-time....................................... & 96,690 & 86,410 & 10,280 \\
\hline Employed part-time.. & 4,610 & 3,880 & 730 \\
\hline Unemployed, seeking.................................... & 2,000 & 1,740 & 260 \\
\hline Retired...................................................... & 11,340 & 10,760 & 580 \\
\hline Not employed, not seeking............................... & 1,920 & 1,080 & 840 \\
\hline Social and related sciences: & & & \\
\hline Total........................................................ & 157,920 & 103,370 & 54,560 \\
\hline Employed full-time........................................ & 129,490 & 87,860 & 41,630 \\
\hline Employed part-time........................................ & 13,900 & 5,430 & 8,470 \\
\hline Unemployed, seeking...................................... & 1,230 & 800 & 440 \\
\hline Retired... & 10,080 & 8,290 & 1,790 \\
\hline Not employed, not seeking................................ & 3,130 & 980 & 2,230 \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Table 3. Doctoral scientists and engineers, by broad field of doctorate, employment status, and sex: 1995


KEY: \(\quad \mathrm{S}=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
Postdoc employment is included as either employed full-time or employed part-iime.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|r|}{Page 1 of 2} \\
\hline Employment status/occupation* & Total & Male & Female \\
\hline All Occupations & & & \\
\hline Total.................................................................................... & 542,540 & 425,930 & 116,610 \\
\hline Employed full-time..... & 456,470 & 363,840 & 92,630 \\
\hline Employed part-ime.... & 28,310 & 15,650 & 12,670 \\
\hline Unemployed, seeking................................................................... & 7,340 & 5,720 & 1,610 \\
\hline Retired... & 40,570 & 36,480 & 4,090 \\
\hline Not employed, not seeking..... & 9,860 & 4,250 & 5,610 \\
\hline Scientists: & & & \\
\hline Total... & 318,830 & 242,230 & 76,610 \\
\hline Employed full-time.................... & 266,890 & 206,030 & 60,850 \\
\hline Employed par-time... & 17,950 & 9,110 & 8,840 \\
\hline Unemployed, seeking.... & 3,770 & 2,870 & 900 \\
\hline Retired... & 24,350 & 21,930 & 2,420 \\
\hline Not employed, not seeking............ & 5,880 & 2,280 & 3,600 \\
\hline Computer and mathematical scientists: & & & \\
\hline Total... & 40,820 & 35,550 & 5,280 \\
\hline Employed full-time........................ & 36,040 & 31,730 & 4,310 \\
\hline Employed part-ime.............. & 1,400 & 960 & 440 \\
\hline Unemployed, seeking.......... & 460 & 400 & 60 \\
\hline Retired.... & 2,190 & 2,020 & 170 \\
\hline Not employed, not seeking.... & 730 & 440 & 290 \\
\hline Life and related scientists: & & & \\
\hline Total... & 97,870 & 73,260 & 24,610 \\
\hline Employed full-time.. & 82,990 & 62,080 & 20,910 \\
\hline Employed part-time............. & 3,000 & 1,930 & 1,070 \\
\hline Unemployed, seeking........ & 1,510 & 1,070 & 450 \\
\hline Retired..... & 8,430 & 7,550 & 880 \\
\hline Not employed, not seeking....... & 1,940 & 640 & 1,300 \\
\hline Physical and related scientists: & & & \\
\hline Total.... & 75,690 & 66,830 & 8,870 \\
\hline Employed full-time.............. & 63,150 & 55,920 & 7,230 \\
\hline Employed part-time............ & 2,740 & 2,240 & 500 \\
\hline Unemployed, seeking..... & 1,200 & 1,040 & 170 \\
\hline Retired. & 7,190 & 6,830 & 350 \\
\hline Not employed, not seeking............................................... & 1,410 & 800 & 620 \\
\hline Social and related scientists: & & & \\
\hline Total... & 104,450 & 66,590 & 37,860 \\
\hline Employed full-time........... & 84,710 & 56,310 & 28,400 \\
\hline Employed part-ime............. & 10,800 & 3,980 & 6,820 \\
\hline Unemployed, seeking.................................................................... & 600 & 370 & 230 \\
\hline Retired................................................................... & 6,540 & 5,520 & 1,020 \\
\hline Not employed, not seeking.............................................. & 1,800 & 410 & 1,390 \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

\({ }^{*}\) If the respondent was unemployed, occupation of last job was reported.
KEY: \(\quad \mathrm{S}=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
Postdoc employment is included as either employed full-time or employed part-time.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients


See explanatory information and SOURCE at end of table.
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|r|}{Page 2 of 2} \\
\hline Employment status/field of doctorate & Total & White & Black & Asian or Pacific Islander & Hispanic & Native American \\
\hline \multicolumn{7}{|l|}{Social and related sciences:} \\
\hline Total. & 157,920 & 140,750 & 5,260 & 6,770 & 4,140 & 960 \\
\hline Employed full-time.... & 129,490 & 114,510 & 4,720 & 5,880 & 3,550 & 830 \\
\hline Employed part-time... & 13,900 & 12,880 & 320 & 290 & 290 & 80 \\
\hline Unemployed, seeking.... & 1,230 & 1,030 & S & 120 & 60 & S \\
\hline Retired. & 10,080 & 9,390 & 160 & 310 & 180 & S \\
\hline Not employed, not seeking.. & 3,130 & 2,940 & S & 160 & 70 & S \\
\hline \multicolumn{7}{|l|}{Engineering:} \\
\hline Total.. & 87,000 & 61,600 & 1,170 & 22,240 & 1,830 & 170 \\
\hline Employed full-time... & 76,070 & 52,220 & 1,090 & 20,930 & 1,660 & 170 \\
\hline Employed part-ime.. & 2,580 & 2,110 & S & 380 & 80 & S \\
\hline Unemployed, seeking. & 1,420 & 1,020 & S & 360 & S & S \\
\hline Retired.. & 6,120 & 5,670 & S & 380 & S & S \\
\hline Not employed, not seeking... & 820 & 590 & S & 190 & S & S \\
\hline
\end{tabular}

KEY: \(\quad \mathrm{S}=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
Postdoc employment is included as either employed full-time or employed part-time.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients


\footnotetext{
See explanatory information and SOURCE at end of table.
}

Table 6. Doctoral scientists and engineers, by broad occupation, employment status, and race/elhnicity: 1995
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|r|}{Page 2 of 2} \\
\hline Employment status/occupation* & Total & White & Black & Asian or Pacific Islander & Hispanic & Native American \\
\hline Social and related scientists: & & & & & & \\
\hline Total.. & 104,450 & 93,480 & 3,160 & 4,280 & 2,790 & 700 \\
\hline Employed full-time.. & 84,710 & 75,080 & 2,870 & 3,760 & 2,380 & 610 \\
\hline Employed part-ime.. & 10,800 & 10,070 & 160 & 210 & 240 & 80 \\
\hline Unemployed, seeking.. & 600 & 510 & S & S & S & S \\
\hline Retired... & 6,540 & 6,190 & 80 & 190 & 90 & S \\
\hline Not employed, not seeking.. & 1,800 & 1,620 & S & 70 & 60 & S \\
\hline Engineers: & & & & & & \\
\hline Total. & 65,290 & 46,400 & 840 & 16,440 & 1,440 & 150 \\
\hline Employed full-time.. & 56,470 & 38,620 & 810 & 15,560 & 1,310 & 150 \\
\hline Employed part-time.. & 1,960 & 1,630 & S & 250 & 80 & S \\
\hline Unemployed, seeking.. & 880 & 640 & S & 210 & S & S \\
\hline Retired..... & 5,440 & 5,070 & S & 350 & S & S \\
\hline Not employed, not seeking. & 530 & 430 & S & 70 & S & S \\
\hline Non-S\&E occupations: & & & & & & \\
\hline Total. & 158,420 & 136,500 & 4,000 & 14,270 & 3,080 & 560 \\
\hline Employed full-time.. & 133,110 & 113,540 & 3,560 & 12,810 & 2,710 & 480 \\
\hline Employed part-ime.. & 8,410 & 7,640 & 210 & 460 & 100 & S \\
\hline Unemployed, seeking.. & 2,680 & 2,250 & 50 & 300 & 70 & S \\
\hline Retired.. & 10,770 & 10,120 & 150 & 300 & 150 & 50 \\
\hline Not employed, not seeking... & 3,450 & 2,950 & S & 400 & 50 & S \\
\hline
\end{tabular}
\({ }^{*}\) If the respondent was unemployed, occupation of last job was reported.
KEY: \(\quad\) S \(=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
Postdoc employment is included as either employed full-time or employed part-time.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|}
\hline Field of doctorate & Unemployment rate & Involuntarily out-of-field rate & Labor force participation rate \\
\hline Total......................................................................... & 1.5 & 4.2 & 90.7 \\
\hline Sciences.. & 1.4 & 4.3 & 90.5 \\
\hline Computer and mathematical sciences............................... & 1.5 & 3.7 & 93.6 \\
\hline Computer and information sciences................................. & 0.9 & 1.7 & 98.7 \\
\hline Mathematical sciences............................................... & 1.7 & 4.3 & 92.3 \\
\hline Life and related sciences................................................. & 1.7 & 3.4 & 90.0 \\
\hline Agricultural and food sciences.................................... & 1.7 & 3.4 & 88.0 \\
\hline Biological and health sciences........................................ & 1.7 & 3.3 & 90.4 \\
\hline Environmental sciences................................................ & 1.8 & 5.6 & 86.3 \\
\hline Physical and related sciences......................................... & 1.9 & 6.3 & 88.6 \\
\hline Chemistry, except biochemistry..................................... & 2.2 & 4.6 & 87.5 \\
\hline Geology and oceanography........................................... & 2.1 & 5.3 & 88.1 \\
\hline Physics and astronomy.............................................. & 1.6 & 9.5 & 90.3 \\
\hline Other physical sciences (incl. earth)................................ & S & S & 97.8 \\
\hline Social and related sciences.......................................... & 0.9 & 3.9 & 91.6 \\
\hline Economics. & 1.3 & 1.4 & 89.4 \\
\hline Political and related sciences.... & 1.1 & 5.5 & 91.5 \\
\hline Psychology... & 0.6 & 3.1 & 92.9 \\
\hline Sociology and anthropology.......................................... & 1.0 & 6.9 & 90.1 \\
\hline Other social sciences................................................... & 0.9 & 6.2 & 90.0 \\
\hline Engineering.................................................................. & 1.8 & 3.8 & 92.0 \\
\hline Aerospace/aeronautical................................................ & S & 2.7 & 88.9 \\
\hline Chemical................................................................... & 2.7 & 2.2 & 89.3 \\
\hline Civil......................................................................... & 1.2 & 2.4 & 96.8 \\
\hline Electrical/computer...................................................... & 1.7 & 4.1 & 92.5 \\
\hline Industrial.. & 2.5 & S & 95.3 \\
\hline Mechanical. & 1.4 & 4.0 & 93.3 \\
\hline Other engineering....................................................... & 1.8 & 5.1 & 91.2 \\
\hline
\end{tabular}

\section*{KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)}

NOTE: All numbers in the table are estimates derived from a sample. See Technical Notes for definition of rates.

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{ll|l|l|l|l} 
Page 1 of 1 \\
\hline & & & & & \\
\hline
\end{tabular}

\footnotetext{
*If the respondent was unemployed, occupation of last job was reported.
KEY: \(\quad S=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample. See Technical Notes for definition of rates.
}

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|r|}{Page 1 of 1} \\
\hline Field of doctorate & Total & Male & Female \\
\hline Total.. & 542,540 & 425,930 & 116,610 \\
\hline Sciences... & 455,530 & 343,730 & 112,160 \\
\hline Computer and mathematical sciences................... & 31,740 & 27,730 & 4,010 \\
\hline Computer and information sciences...... & 6,580 & 5,510 & 1,040 \\
\hline Mathematical sciences..................................... & 25,160 & 22,180 & 2,980 \\
\hline Life and related sciences... & 149,320 & 108,400 & 40,920 \\
\hline Agricultural and food sciences........................ & 17,850 & 15,420 & 2,430 \\
\hline Biological and health sciences.......................... & 126,890 & 88,780 & 38,110 \\
\hline Environmental sciences................................. & 4,590 & 4,210 & 370 \\
\hline Physical and related sciences............................... & 116,550 & 103,880 & 12,680 \\
\hline Chemistry, except biochemistry.......................... & 61,350 & 52,880 & 8,470 \\
\hline Geology and oceanography................................ & 15,180 & 13,440 & 1,740 \\
\hline Physics and astronomy................................... & 38,730 & 36,540 & 2,190 \\
\hline Other physical sciences (incl. earth).................... & 1,300 & 1,030 & 270 \\
\hline Social and related sciences.... & 157,920 & 103,370 & 54,550 \\
\hline Economics............................................... & 22,500 & 19,410 & 3,090 \\
\hline Political and related sciences.......................... & 16,330 & 13,100 & 3,230 \\
\hline Psychology................................................. & 82,150 & 47,420 & 34,730 \\
\hline Sociology and anthropology.............................. & 23,030 & 14,340 & 8,690 \\
\hline Other social sciences...................................... & 13,910 & 9,020 & 4,810 \\
\hline Engineering..................................................... & 87,000 & 82,560 & 4,450 \\
\hline Aerospace/aeronautical.................................... & 3,810 & 3,770 & S \\
\hline Chemical................................................... & 12,590 & 11,880 & 710 \\
\hline Civil. & 7,740 & 7,380 & 360 \\
\hline Electrical/computer.......................................... & 22,850 & 21,920 & 930 \\
\hline Industrial....................................................... & 2,410 & 2,210 & 310 \\
\hline Mechanical................................................... & 10,560 & 10,250 & 310 \\
\hline Other engineering............................................ & 27,050 & 25,260 & 1,790 \\
\hline
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|}
\hline \multirow[b]{2}{*}{Occupation*} & \multicolumn{3}{|r|}{Page 1 of 1} \\
\hline & Total & Male & Female \\
\hline Total..... & 542,540 & 425,930 & 116,610 \\
\hline Scientists.. & 318,830 & 242,230 & 76,610 \\
\hline Computer and mathematical scientists.. & 40,820 & 35,550 & 5,280 \\
\hline Computer and information scientists......................................... & 15,180 & 13,570 & 1,610 \\
\hline Mathematical scientists....................................................... & 7,060 & 5,810 & 1,250 \\
\hline Postsecondary teachers, computer and mathematical sciences. & 18,580 & 16,170 & 2,410 \\
\hline Life and related scientists.. & 97,870 & 73,260 & 24,610 \\
\hline Agricultural scientists... & 9,660 & 8,510 & 1,150 \\
\hline Biological scientists.... & 54,310 & 38,310 & 16,010 \\
\hline Forestry and conservation scientists.. & 1,060 & 910 & 150 \\
\hline Postsecondary teachers, life and related sciences.......................... & 32,840 & 25,530 & 7,310 \\
\hline Physical and related scientists.. & 75,690 & 66,830 & 8,870 \\
\hline Chemists, except biochemists.. & 24,490 & 21,070 & 3,420 \\
\hline Earth scientists.................. & 10,030 & 9,000 & 1,030 \\
\hline Physicists and astronomers.... & 13,810 & 12,850 & 960 \\
\hline Other physical scientists... & 2,350 & 2,020 & 330 \\
\hline Postsecondary teachers, physical and related sciences.... & 25,010 & 21,880 & 3,130 \\
\hline Social and related scientists.... & 104,450 & 66,590 & 37,860 \\
\hline Economists.... & 6,510 & 5,100 & 1,410 \\
\hline Political scientists.. & 1,470 & 1,170 & 300 \\
\hline Psychologists..... & 43,650 & 23,270 & 20,380 \\
\hline Sociologists and anthropologists.... & 3,550 & 2,240 & 1,310 \\
\hline S\&T historians and other social scientists.. & 2,500 & 1,500 & 1,000 \\
\hline Postsecondary teachers, social and related sciences... & 46,770 & 33,310 & 13,460 \\
\hline Engineers....... & 65,290 & 61,740 & 3,550 \\
\hline Aerospace and related engineers... & 4,200 & 4,410 & 150 \\
\hline Chemical engineers.................. & 6,520 & 6,090 & 430 \\
\hline Civil and architectural engineers.. & 2,930 & 2,830 & 110 \\
\hline Electric and related engineers... & 11,840 & 11,400 & 440 \\
\hline Industrial engineers........... & 860 & 760 & 100 \\
\hline Mechanical engineers.. & 6,280 & 6,100 & 180 \\
\hline Other engineers... & 15,540 & 14,400 & 1,150 \\
\hline Postsecondary teachers, engineering................ & 17,120 & 16,130 & 990 \\
\hline Non-S\&E occupations... & 158,420 & 121,970 & 36,450 \\
\hline Managers, administrators, etc..... & 90,710 & 75,610 & 15,110 \\
\hline Health and related occupations.................................................. & 15,030 & 10,550 & 4,490 \\
\hline Teachers, except S\&E postsecondary teachers.............................. & 21,480 & 12,190 & 9,290 \\
\hline Social services and related occupations.. & 2,090 & 1,360 & 740 \\
\hline Technologists, etc............. & 6,030 & 5,230 & 800 \\
\hline Sales and marketing occupations......................................... & 5,570 & 4,710 & 870 \\
\hline Other non-S\&E occupations...................................................... & 17,500 & 12,340 & 5,160 \\
\hline
\end{tabular}
*If the respondent was unemployed, occupation of last job was reported.
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Field of doctorate} & \multirow[b]{2}{*}{Total} & \multicolumn{5}{|r|}{Page 1 of 1} \\
\hline & & White & Black & \begin{tabular}{l}
Asian or \\
Pacific Islander
\end{tabular} & Hispanic & \begin{tabular}{l}
Native \\
American
\end{tabular} \\
\hline Total..................................................... & 542,540 & 455,050 & 11,110 & 62,430 & 11,930 & 1,950 \\
\hline Sciences............................................. & 455,530 & 393,450 & 9,940 & 40,190 & 10,100 & 1,780 \\
\hline Computer and mathematical sciences.......... & 31,740 & 25,050 & 440 & 5,260 & 930 & 160 \\
\hline Computer and information sciences............ & 6,580 & 4,410 & 80 & 1,890 & 190 & S \\
\hline Mathematical sciences............................. & 25,160 & 20,640 & 360 & 3,370 & 740 & S \\
\hline Life and related sciences........................... & 149,320 & 129,140 & 2,970 & 13,840 & 2,870 & 490 \\
\hline Agricultural and food sciences................... & 17,850 & 15,150 & 240 & 2,020 & 430 & S \\
\hline Biological and health sciences................... & 126,890 & 109,790 & 2,690 & 11,580 & 2,390 & 430 \\
\hline Environmental sciences............... & 4,590 & 4,200 & S & 220 & S & 50 \\
\hline Physical and related sciences..................... & 116,550 & 98,500 & 1,260 & 14,330 & 2,160 & 270 \\
\hline Chemistry, except biochemistry.................. & 61,350 & 51,250 & 890 & 7,730 & 1,320 & 170 \\
\hline Geology and oceanography... & 15,180 & 13,910 & S & 950 & 250 & S \\
\hline Physics and astronomy.......................... & 38,730 & 32,240 & 310 & 5,520 & 590 & S \\
\hline Other physical sciences (incl. earth).......... & 1,300 & 1,110 & S & 130 & S & S \\
\hline Social and related sciences... & 157,920 & 140,750 & 5,260 & 6,770 & 4,140 & 960 \\
\hline Economics....................................... & 22,500 & 19,330 & 510 & 2,200 & 400 & 80 \\
\hline Political and related sciences.................. & 16,330 & 14,140 & 800 & 790 & 480 & 110 \\
\hline Psychology......................................... & 82,150 & 75,290 & 2,560 & 1,650 & 2,170 & 480 \\
\hline Sociology and anthropology...................... & 23,030 & 20,420 & 900 & 810 & 720 & 160 \\
\hline Other social sciences.............................. & 13,910 & 11,600 & 500 & 1,320 & 380 & 130 \\
\hline Engineering................... & 87,000 & 61,600 & 1,170 & 22,240 & 1,830 & 170 \\
\hline Aerospace/aeronautical........................... & 3,810 & 2,950 & 70 & 720 & 80 & S \\
\hline Chemical.............................................. & 12,590 & 8,990 & 150 & 3,120 & 320 & S \\
\hline Civil.................... & 7,740 & 5,180 & 140 & 2,180 & 220 & S \\
\hline Electrical/computer............................... & 22,850 & 15,950 & 290 & 6,020 & 530 & 60 \\
\hline Industrial............. & 2,410 & 1,770 & S & 550 & S & S \\
\hline Mechanical..................................... & 10,560 & 7,100 & 160 & 3,120 & 160 & S \\
\hline Other engineering................................... & 27,050 & 19,660 & 330 & 6,520 & 470 & 60 \\
\hline
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 12. Doctoral scientists and engineers, by occupation and race/ethnicity: 1995
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Occupation*} & \multirow[b]{2}{*}{Total} & \multirow[b]{2}{*}{White} & \multirow[b]{2}{*}{Black} & \multicolumn{3}{|r|}{Page 1 of 2} \\
\hline & & & & Asian or Pacific Islander & Hispanic & \begin{tabular}{l}
Native \\
American
\end{tabular} \\
\hline Total. & 542,540 & 455,050 & 11,110 & 62,430 & 11,930 & 1,950 \\
\hline Scientists....................................................... & 318,830 & 272,150 & 6,270 & 31,710 & 7,410 & 1,240 \\
\hline Computer and mathematical scientists........... & 40,820 & 31,370 & 550 & 7,690 & 1,070 & 130 \\
\hline Computer and information scientists.................... & 15,180 & 11,070 & 100 & 3,630 & 320 & 60 \\
\hline Mathematical scientists................................... & 7,060 & 5,440 & 120 & 1,340 & 160 & S \\
\hline Postsecondary teachers, computer and mathematical sciences. \(\qquad\) & 18,580 & 14,860 & 330 & 2,720 & 600 & 60 \\
\hline Life and related scientists.. & 97,870 & 83,390 & 1,550 & 10,770 & 1,970 & 250 \\
\hline Agricultural scientists.. & 9,660 & 8,430 & 90 & 860 & 280 & S \\
\hline Biological scientists.......... & 54,310 & 44,160 & 710 & 8,070 & 1,170 & 190 \\
\hline Forestry and conservation scientists.................... & 1,060 & 1,010 & S & S & S & S \\
\hline Postsecondary teachers, life and related sciences. \(\qquad\) & 32,840 & 29,790 & 720 & 1,770 & 520 & S \\
\hline Physical and related scientists............................ & 75,690 & 63,910 & 1,000 & 9,030 & 1,570 & 170 \\
\hline Chemists, except biochemists....... & 24,490 & 19,380 & 440 & 4,100 & 520 & S \\
\hline Earth scientists... & 10,030 & 9,080 & S & 750 & 150 & S \\
\hline Physicists and astronomers.............................. & 13,810 & 11,510 & 70 & 2,020 & 220 & S \\
\hline Other physical scientists.................................. & 2,350 & 1,980 & S & 250 & 80 & S \\
\hline Postsecondary teachers, physical and related sciences. \(\qquad\) & 25,010 & 21,960 & 430 & 1,930 & 610 & 80 \\
\hline Social and related scientists. & 104,450 & 93,480 & 3,160 & 4,280 & 2,790 & 970 \\
\hline Economists..... & 6,510 & 5,310 & 120 & 850 & 160 & 60 \\
\hline Political scientists.... & 1,470 & 1,220 & S & 100 & 110 & S \\
\hline Psychologists..................... & 43,650 & 40,260 & 1,200 & 770 & 1,100 & 300 \\
\hline Sociologists and anthropologists...................... & 3,550 & 3,370 & 70 & 70 & S & S \\
\hline S\&T historians and other social scientists............ & 2,500 & 2,150 & 70 & 210 & 60 & S \\
\hline Postsecondary teachers, social and related sciences. \(\qquad\) & 46,770 & 41,160 & 1,650 & 2,280 & 1,320 & 320 \\
\hline Engineers...................................................... & 65,290 & 46,400 & 840 & 16,440 & 1,440 & 150 \\
\hline Aerospace and related engineers........................ & 4,200 & 3,160 & S & 930 & 60 & S \\
\hline Chemical engineers.... & 6,520 & 4,500 & 110 & 1,770 & 150 & S \\
\hline Civil and architectural engineers......................... & 2,930 & 1,600 & 50 & 1,170 & 110 & S \\
\hline Electric and related engineers.... & 11,840 & 8,050 & 110 & 3,430 & 210 & S \\
\hline Industrial engineers......................................... & 860 & 610 & S & 230 & S & S \\
\hline Mechanical engineers...................................... & 6,280 & 3,900 & 50 & 2,190 & 110 & S \\
\hline Other engineers.......... & 15,540 & 11,390 & 140 & 3,700 & 290 & S \\
\hline Postsecondary teachers, engineering................... & 17,120 & 13,200 & 340 & 3,030 & 480 & 70 \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table.
}

Table 12. Doctoral scientists and engineers, by occupation and race/ethnicity: 1995
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|r|}{Page 2 of 2} \\
\hline Occupation* & Total & White & Black & \begin{tabular}{l}
Asian or \\
Pacific Islander
\end{tabular} & Hispanic & Native American \\
\hline Non-S\&E occupations... & 158,420 & 136,500 & 4,000 & 14,270 & 3,080 & 560 \\
\hline Managers, administrators, etc............................... & 90,710 & 78,640 & 2,260 & 7,830 & 1,730 & 260 \\
\hline Health and related occupations.... & 15,030 & 12,600 & 340 & 1,790 & 250 & 50 \\
\hline Teachers, except S\&E postsecondary teachers..... & 21,480 & 18,630 & 800 & 1,490 & 450 & 110 \\
\hline Social services and related occupations................ & 2,090 & 1,840 & 110 & 90 & S & S \\
\hline Technologists, etc................................... & 6,030 & 4,680 & 70 & 1,180 & 90 & S \\
\hline Sales and marketing occupations......................... & 5,570 & 4,730 & 60 & 600 & 170 & S \\
\hline Other non-S\&E occupations........................... & 17,500 & 15,390 & 360 & 1,300 & 350 & 100 \\
\hline
\end{tabular}

If the respondent was unemployed, occupation of last job was reported.
KEY: \(\quad\) S \(=\) Suppressed because fewer than 50 weighted cases reported (See NOTE betow)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Field of doctorate} & & & & & & & Page 1 of 1 \\
\hline & \multirow[b]{2}{*}{Total} & \multicolumn{3}{|c|}{U.S. Citizen} & \multicolumn{3}{|c|}{Non-U.S. Citizen} \\
\hline & & Total & Native & Naturalized & Total & Permanent resident & Temporany resident \\
\hline Total..................................................... & 542,540 & 499,890 & 441,080 & 58,820 & 42,640 & 35,480 & 7,070 \\
\hline Sciences.. & 455,530 & 426,410 & 386,750 & 39,660 & 29,120 & 24,180 & 4,920 \\
\hline Computer and mathematical sciences.......... & 31,740 & 27,150 & 23,400 & 3,750 & 4,590 & 3,740 & 850 \\
\hline Computer and information sciences........... & 6,580 & 4,720 & 3,990 & 720 & 1,860 & 1,550 & 310 \\
\hline Mathematical sciences............................ & 25,160 & 22,440 & 19,410 & 3,030 & 2,720 & 2,190 & 540 \\
\hline Life and related sciences............ & 149,320 & 140,150 & 127,180 & 12,970 & 9,170 & 7,440 & 1,710 \\
\hline Agricultural and food sciences.................. & 17,850 & 16,490 & 14,660 & 1,840 & 1,360 & 1,060 & 280 \\
\hline Biological and heath sciences.................. & 126,890 & 119,290 & 108,440 & 10,850 & 7,600 & 6,210 & 1,390 \\
\hline Environmental sciences.......................... & 4,590 & 4,370 & 4,090 & 280 & 210 & 170 & S \\
\hline Physical and related sciences.................. & 116,550 & 107,720 & 94,760 & 12,960 & 8,830 & 7,410 & 1,420 \\
\hline Chemistry, except biochemistry................ & 61,350 & 57,310 & 50,370 & 6,940 & 4,040 & 3,540 & 500 \\
\hline Geology and oceanography.......... & 15,180 & 14,220 & 13,150 & 1,070 & 960 & 790 & 170 \\
\hline Physics and astronomy ................... & 38,730 & 35,020 & 30,120 & 4,900 & 3,710 & 2,980 & 730 \\
\hline Other physical sciences (incl. earth).......... & 1,300 & 1,180 & 1,120 & 60 & 120 & 100 & S \\
\hline Social and related sciences... & 157,920 & 151,390 & 141,410 & 9,980 & 6,530 & 5,580 & 940 \\
\hline Economics... & 22,500 & 20,290 & 17,990 & 2,300 & 2,210 & 1,740 & 470 \\
\hline Political and related sciences. & 16,330 & 15,490 & 14,060 & 1,420 & 840 & 700 & 140 \\
\hline Psychology... & 82,150 & 80,710 & 77,500 & 3,210 & 1,440 & 1,340 & 100 \\
\hline Sociology and anthropology............... & 23,030 & 22,140 & 20,650 & 1,500 & 890 & 780 & 90 \\
\hline Other social sciences.............................. & 13,910 & 12,760 & 11,210 & 1,550 & 1,150 & 1,020 & 140 \\
\hline Engineering........................................... & 87,000 & 73,480 & 54,320 & 19,160 & 13,520 & 11,310 & 2,150 \\
\hline Aerospace/aeronautical.......................... & 3,810 & 3,410 & 2,660 & 750 & 400 & 280 & 100 \\
\hline Chemical.. & 12,590 & 11,020 & 8,380 & 2,630 & 1,570 & 1,310 & 260 \\
\hline Civil... & 7,740 & 6,260 & 4,060 & 2,200 & 1,480 & 1,250 & 210 \\
\hline Electrical/computer... & 22,850 & 18,990 & 13,540 & 5,450 & 3,860 & 3,250 & 590 \\
\hline Industrial.. & 2,410 & 2,020 & 1,580 & 440 & 400 & 360 & S \\
\hline Mechanical. & 10,560 & 8,520 & 6,210 & 2,300 & 2,040 & 1,760 & 280 \\
\hline Other engineering.................................. & 27,050 & 23,270 & 17,880 & 5,390 & 3,780 & 3,100 & 680 \\
\hline
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Occupation*} & & & & & & & Page 1 of 2 \\
\hline & \multirow[b]{2}{*}{Total} & \multicolumn{3}{|c|}{U.S. Citizen} & \multicolumn{3}{|c|}{Non-U.S. Citizen} \\
\hline & & Total & Native & Naturalized & Total & Permanent resident & Temporary resident \\
\hline Total.... & 542,540 & 499,890 & 441,080 & 58,820 & 42,640 & 35,480 & 7,070 \\
\hline Scientists... & 318,830 & 293,110 & 264,900 & 28,230 & 25,720 & 20,770 & 4,890 \\
\hline Computer and mathematical scientists................. & 40,820 & 34,400 & 28,780 & 5,620 & 6,420 & 5,170 & 1,230 \\
\hline Computer and information scientists.................. & 15,180 & 12,390 & 10,140 & 2,260 & 2,780 & 2,200 & 590 \\
\hline Mathematical scientists................................... & 7,060 & 6,080 & 5,130 & 940 & 990 & 830 & 160 \\
\hline Postsecondary teachers, computer and mathematical sciences. \(\qquad\) & 18,580 & 15,930 & 13,510 & 2,420 & 2,650 & 2,140 & 490 \\
\hline Life and related scientists.. & 97,870 & 89,940 & 81,550 & 8,390 & 7,930 & 6,170 & 1,740 \\
\hline Agricultural scientists..................................... & 9,660 & 9,020 & 8,330 & 690 & 640 & 470 & 170 \\
\hline Biological scientists........................................ & 54,310 & 47,870 & 42,720 & 5,160 & 6,440 & 4,960 & 1,460 \\
\hline Forestry and conservation scientists.................. & 1,060 & 1,030 & 960 & 80 & S & S & S \\
\hline Postsecondary teachers, life and related sciences. \(\qquad\) & 32,840 & 32,010 & 29,540 & 2,480 & 830 & 720 & 110 \\
\hline Physical and related scientists........................... & 75,690 & 69,080 & 61,000 & 8,080 & 6,620 & 5,410 & 1,200 \\
\hline Chemists, except biochemists.......................... & 24,490 & 21,990 & 18,840 & 3,150 & 2,500 & 2,200 & 310 \\
\hline Earth scientists....................... & 10,030 & 9,340 & 8,550 & 790 & 700 & 560 & 140 \\
\hline Physicists and astronomers.... & 13,810 & 12,020 & 10,460 & 1,560 & 1,790 & 1,210 & 580 \\
\hline Other physical scientists................................. & 2,350 & 2,180 & 1,870 & 310 & 170 & 160 & S \\
\hline Postsecondary teachers, physical and related sciences. \(\qquad\) & 25,010 & 23,560 & 21,290 & 2,270 & 1,450 & 1,280 & 170 \\
\hline Social and related scientists... & 104,450 & 99,690 & 93,550 & 6,140 & 4,760 & 4,020 & 730 \\
\hline Economists... & 6,510 & 5,700 & 4,970 & 730 & 810 & 550 & 260 \\
\hline Political scientists.................................... & 1,470 & 1,390 & 1,190 & 200 & 90 & 60 & S \\
\hline Psychologists... & 43,650 & 42,930 & 41,180 & 1,740 & 730 & 680 & S \\
\hline Sociologists and anthropologists....................... & 3,550 & 3,500 & 3,350 & 150 & S & S & S \\
\hline S\&T historians and other social scientists............ & 2,500 & 2,330 & 2,120 & 210 & 160 & 130 & S \\
\hline Postsecondary teachers, social and related sciences \(\qquad\) & 46,770 & 43,840 & 40,730 & 3,100 & 2,930 & 2,550 & 370 \\
\hline Engineers..................................................... & 65,290 & 54,870 & 41,730 & 13,130 & 10,420 & 8,950 & 1,430 \\
\hline Aerospace and related engineers................... & 4,200 & 3,830 & 2,860 & 960 & 370 & 270 & 90 \\
\hline Chemical engineers..................................... & 6,520 & 5,450 & 4,030 & 1,420 & 1,070 & 880 & 190 \\
\hline Civil and architectural engineers........................ & 2,930 & 2,180 & 1,360 & 830 & 750 & 640 & 110 \\
\hline Electric and related engineers........................... & 11,840 & 9,870 & 7,280 & 2,590 & 1,960 & 1,640 & 330 \\
\hline Industrial engineers........................................ & 860 & 620 & 520 & 100 & 240 & 210 & S \\
\hline Mechanical engineers..................................... & 6,280 & 4,880 & 3,450 & 1,420 & 1,400 & 1,190 & 220 \\
\hline Other engineers............................................. & 15,540 & 13,270 & 10,710 & 2,530 & 2,280 & 1,940 & 330 \\
\hline Postsecondary teachers, engineering.................. & 17,120 & 14,220 & 11,510 & 3,250 & 2,350 & 2,190 & 170 \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table.
}

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Occupation*} & & & & & \multicolumn{3}{|r|}{Page 2 of 2} \\
\hline & \multirow[b]{2}{*}{Total} & \multicolumn{3}{|c|}{U.S. Citizen} & \multicolumn{3}{|c|}{Non-U.S. Citizen} \\
\hline & & Total & Native & Naturalized & Total & Permanent resident & Temporary resident \\
\hline Non-S\&E occupations... & 158,420 & 151,910 & 134,460 & 17,450 & 6,510 & 5,760 & 450 \\
\hline Managers, administrators, etc. & 90,710 & 88,130 & 77,910 & 10,220 & 2,580 & 2,360 & 230 \\
\hline Health and related occupations......................... & 15,030 & 14,230 & 12,230 & 2,000 & 800 & 720 & 80 \\
\hline Teachers, except S\&E postsecondary teachers... & 21,480 & 20,420 & 18,330 & 2,090 & 1,060 & 970 & 90 \\
\hline Social services and related occupations.............. & 2,090 & 1,980 & 1,870 & 120 & 110 & 100 & S \\
\hline Technologists, etc............................. & 6,030 & 5,330 & 4,480 & 840 & 710 & 560 & 150 \\
\hline Sales and marketing occupations......... & 5,570 & 5,190 & 4,380 & 810 & 390 & 330 & 60 \\
\hline Other non-S\&E occupations............................. & 17,500 & 16,630 & 15,260 & 1,380 & 860 & 730 & 130 \\
\hline
\end{tabular}
*If the respondent was unemployed, occupation of last job was reported.
KEY: \(\quad S=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{11}{|l|}{Page 1 of 1} \\
\hline Field of doctorate & Total & Under 30 & 30-34 & 35-39 & 40-44 & 45-49 & 50-54 & 55-59 & 60-64 & 65-75 \\
\hline Total.. & 542,540 & 8,670 & 53,220 & 79,710 & 87,900 & 91,850 & 84,850 & 51,930 & 35,070 & 49,310 \\
\hline Sciences... & 455,530 & 6,630 & 40,710 & 64,340 & 75,380 & 80,540 & 72,390 & 43,060 & 29,830 & 42,660 \\
\hline Computer and mathematical sciences.......... & 31,740 & 790 & 3,530 & 5,080 & 4,670 & 5,600 & 5,660 & 3,170 & 1,670 & 1,580 \\
\hline Computer and information sciences........... & 6,580 & 290 & 1,530 & 2,030 & 1,510 & 900 & 240 & 60 & S & S \\
\hline Mathiematical sciences............................ & 25,160 & 500 & 2,010 & 3,050 & 3,170 & 4,690 & 5,420 & 3,110 & 1,660 & 1,560 \\
\hline Life and related sciences........................... & 149,320 & 2,160 & 14,060 & 23,190 & 27,430 & 25,600 & 21,490 & 13,100 & 8,820 & 13,480 \\
\hline Agricultural and food sciences.................. & 17,850 & 150 & 1,300 & 2,780 & 3,330 & 2,470 & 2,460 & 1,710 & 1,580 & 2,080 \\
\hline Biological and health sciences.................. & 126,890 & 2,010 & 12,600 & 19,860 & 23,320 & 22,040 & 18,140 & 10,980 & 6,960 & 10,970 \\
\hline Environmental sciences.......................... & 4,590 & S & 150 & 550 & 770 & 1,090 & 890 & 410 & 290 & 440 \\
\hline Physical and related sciences.................... & 116,550 & 2,330 & 12,880 & 16,620 & 15,100 & 16,660 & 18,520 & 12,430 & 8,960 & 13,060 \\
\hline Chemistry, except biochemistry................ & 61,350 & 1,400 & 6,930 & 9,290 & 7,720 & 7,600 & 9,540 & 6,570 & 4,710 & 7,600 \\
\hline Geology and oceanography...................... & 15,180 & 110 & 1,390 & 2,110 & 2,510 & 2,610 & 2,200 & 1,510 & 1,300 & 1,440 \\
\hline Physics and astronomy.......................... & 38,730 & 800 & 4,340 & 4,950 & 4,610 & 6,150 & 6,640 & 4,340 & 2,920 & 3,980 \\
\hline Other physical sciences (incl. earth)........... & 1,300 & S & 220 & 270 & 260 & 300 & 140 & S & S & S \\
\hline Social and related sciences.................... & 157,920 & 1,360 & 10,250 & 19,450 & 28,180 & 32,680 & 26,720 & 14,370 & 10,380 & 14,540 \\
\hline Economics........................................... & 22,500 & 310 & 1,710 & 3,230 & 3,080 & 3,840 & 3,630 & 2,380 & 1,660 & 2,670 \\
\hline Political and related sciences................... & 16,330 & 170 & 840 & 1,670 & 2,460 & 3,000 & 3,380 & 1,320 & 1,430 & 2,070 \\
\hline Psychology....................................... & 82,150 & 790 & 6,050 & 10,950 & 16,560 & 18,170 & 12,260 & 6,480 & 4,680 & 6,190 \\
\hline Sociology and anthropology..................... & 23,030 & 80 & 820 & 2,080 & 3,810 & 4,850 & 4,600 & 2,770 & 1,510 & 2,510 \\
\hline Other social sciences............................. & 13,910 & S & 840 & 1,520 & 2,270 & 2,820 & 2,840 & 1,420 & 1,100 & 1,110 \\
\hline Engineering........................................... & 87,000 & 2,070 & 12,530 & 15,370 & 12,510 & 11,310 & 12,470 & 8,880 & 5,240 & 6,650 \\
\hline Aerospace/aeronautical........................... & 3,810 & 110 & 470 & 510 & 390 & 440 & 690 & 550 & 340 & 320 \\
\hline Chemical.................. & 12,590 & 350 & 2,140 & 2,290 & 1,400 & 1,510 & 1,710 & 1,300 & 720 & 1,170 \\
\hline Civil. & 7,740 & 80 & 950 & 1,330 & 1,180 & 1,020 & 1,310 & 870 & 630 & 360 \\
\hline Electrical/computer................................ & 22,850 & 580 & 3,760 & 4,170 & 3,230 & 2,960 & 3,180 & 2,380 & 900 & 1,700 \\
\hline Industrial.............................................. & 2,410 & 70 & 200 & 440 & 420 & 260 & 460 & 230 & 110 & 220 \\
\hline Mechanical. & 10,560 & 240 & 1,500 & 2,310 & 1,450 & 1,490 & 1,390 & 850 & 710 & 630 \\
\hline Other engineering....... & 27,050 & 640 & 3,490 & 4,330 & 4,440 & 3,630 & 3,730 & 2,700 & 1,830 & 2,260 \\
\hline \multicolumn{11}{|l|}{KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)} \\
\hline \multicolumn{11}{|l|}{NOTE: All numbers in the table are estimates derived from a sample.} \\
\hline \multicolumn{11}{|l|}{SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients} \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{11}{|l|}{2} \\
\hline Occupation* & Total & Under 30 & 30-34 & 35-39 & 40-44 & 45-49 & 50-54 & 55-59 & 60-64 & 65-75 : \\
\hline Total. & 542,540 & 8,700 & 53,220 & 79,710 & 87,890 & 91,850 & 84,850 & 51,930 & 35,070 & 49,310 \\
\hline Scientists.. & 318,830 & 6,100 & 35,880 & 51,800 & 53,270 & 51,410 & 43,700 & 27,040 & 19,430 & 30,210 \\
\hline Computer and mathematical scientists. & 40,820 & 1,010 & 4,780 & 6,720 & 6,770 & 6,990 & 6,530 & 3,610 & 2,040 & 2,370 \\
\hline Computer and information scientists..................... & 15,180 & 410 & 2,080 & 2,820 & 2,920 & 2,940 & 2,130 & 830 & 470 & 580 \\
\hline Mathematical scientists............... & 7,060 & 130 & 780 & 1,150 & 1,210 & 1,310 & 960 & 640 & 350 & 540 \\
\hline Postsecondary teachers, computer and mathematical sciences.
\(\qquad\) & ,18,580 & 460 & 1,920 & 2,740 & 2,640 & 2,740 & 3,450 & 2,150 & 1,230 & 1,250 \\
\hline Life and related scientists.......................................... & 97,870 & 1,900 & 12,410 & 17,590 & 17,710 & 14,270 & 11,830 & 7,110 & 5,360 & 9,690 \\
\hline Agricultural scientists................................................ & 9,660 & 70 & 770 & 1,520 & 1,730 & 1,230 & 1,170 & 750 & 770 & 1,650 \\
\hline Biological scientists.................................................. & 54,310 & 1,690 & 9,810 & 11,280 & 10,110 & 7,250 & 4,880 & 2,900 & 1,930 & 4,470 \\
\hline Forestry and conservation scientists............................. & 1,060 & S & S & 180 & 240 & 130 & 120 & 80 & 100 & 160 \\
\hline Postsecondary teachers, life and related sciences.
\(\qquad\) & 32,840 & 120 & 1,800 & 4,620 & 5,630 & 5,660 & 5,670 & 3,380 & 2,570 & 3,400 \\
\hline Physical and related scientists...................................... & 75,690 & 1,930 & 10,270 & 12,530 & 10,290 & 9,570 & 9,700 & 7,670 & 5,500 & 8,240 \\
\hline Chemists, except biochemists.................................... & 24,490 & 900 & 4,070 & 4,830 & 3,600 & 2,790 & 2,450 & 1,890 & 1,380 & 2,600 \\
\hline Earth scientists.. & 10,030 & S & 1,100 & 1,550 & 1,650 & 1,760 & 1,420 & 930 & 610 & 960 \\
\hline Physicists and astronomers..................................... & 13,810 & 620 & 2,430 & 2,350 & 1,560 & 1,860 & 1,530 & 1,170 & 920 & 1,360 \\
\hline Other physical scientists........................................... & 2,350 & 70 & 120 & 420 & 430 & 310 & 390 & 190 & 180 & 250 \\
\hline Postsecondary teachers, physical and related sciences.
\(\qquad\) & 25,010 & 300 & 2,550 & 3,370 & 3,040 & 2,850 & 3,920 & 3,490 & 2,410 & 3,070 \\
\hline Social and related scientists....................................... & 104,450 & 1,260 & 8,420 & 14,960 & 18,510 & 20,580 & 15,630 & 8,640 & 6,520 & 9,920 \\
\hline Economists......... & 6,510 & 220 & 640 & 1,270 & 940 & 1,370 & 670 & 490 & 220 & 710 \\
\hline Political scientists.. & 1,470 & 50 & 110 & 160 & 130 & 250 & 160 & 180 & 90 & 360 \\
\hline Psychologists... & 43,650 & 590 & 3,640 & 6,750 & 9,230 & 9,810 & 6,020 & 2,820 & 1,980 & 2,830 \\
\hline Sociologists and anthropologists................................ & 3,550 & S & 220 & 320 & 680 & 580 & 390 & 370 & 240 & 740 \\
\hline S\&T historians and other social scientists...................... & 2,500 & S & 100 & 290 & 540 & 550 & 420 & 150 & 220 & 210 \\
\hline Postsecondary teachers, social and related sciences.
\(\qquad\) & 46,770 & 380 & 3,720 & 6,190 & 6,990 & 8,030 & 7,970 & 4,650 & 3,770 & 5,080 \\
\hline
\end{tabular}

\section*{NOTE: All numbers in the table are estimates derived from a sample.}
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
*If the respondent was unemployed, occupation of last job was reported.
\begin{tabular}{|c|c|c|c|}
\hline & & & Page 2 of 2 \\
\hline & 55-59 & 60-64 & 65-75 \\
\hline ,600 & 6,220 & 4,240 & 5,820 \\
\hline 470 & 570 & 320 & 430 \\
\hline 780 & 430 & 420 & 590 \\
\hline 550 & 210 & 190 & 170 \\
\hline ,290 & 1,130 & 380 & 1000 \\
\hline 100 & 70 & S & S \\
\hline 730 & 600 & 400 & 290 \\
\hline ,640 & 1,230 & 850 & 1,670 \\
\hline ,050 & 1,990 & 1,640 & 1,650 \\
\hline ,560 & 18,680 & 11,400 & 13,280 \\
\hline ,920 & 12,210 & 6,040 & 6,280 \\
\hline ,380 & 1,430 & 940 & 1,170 \\
\hline ,000 & 2,010 & 1,940 & 2,020 \\
\hline 360 & 230 & 140 & 320 \\
\hline 940 & 340 & 310 & 360 \\
\hline 940 & 760 & 490 & 380 \\
\hline ,010 & 1,700 & 1,550 & 2,760 \\
\hline & & & \\
\hline & & & \\
\hline & & & \\
\hline & & & \\
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\hline & & & \\
\hline & & & \\
\hline & & & \\
\hline & & & \\
\hline & & & \\
\hline \multicolumn{2}{|l|}{\[
36
\]} & & \\
\hline
\end{tabular}

Table 17. Doctoral scientists and engineers employed in universities and 4 -year colleges, by broad field of doctorate, sex, and academic rank: 1995
\begin{tabular}{l|r|r|r|r|r|r|r|r} 
Page 1 of 1
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

\section*{Table 18. Doctoral scientists and engineers employed in universities and 4-year colleges, by broad field of doctorate, sex, and tenure status: 1995}
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Field of doctorate/sex} & \multirow[b]{3}{*}{Total} & \multirow[b]{3}{*}{Tenured} & \multicolumn{3}{|r|}{Page 1 of 1} \\
\hline & & & \multicolumn{2}{|l|}{Not tenured} & Not \\
\hline & & & In tenure track & Not in track & applicable \\
\hline Total (number)................................................ & 222,530 & 115,850 & 36,830 & 21,500 & 48,360 \\
\hline Male (percent)............................................... & 76.6 & 84.7 & 67.5 & 63.8 & 70.0 \\
\hline Female (percent)............................................ & 23.4 & 15.3 & 32.5 & 36.2 & 30.0 \\
\hline Sciences (number)........................................... & 196,870 & 101,930 & 32,160 & 19,480 & 43,310 \\
\hline Male (percent)............................................... & 74.4 & 83.0 & 64.7 & 61.1 & 67.5 \\
\hline Female (percent)............................................. & 25.6 & 17.0 & 35.3 & 38.9 & 32.5 \\
\hline Computer and mathematical sciences.................... & 17,830 & 11,650 & 3,510 & 980 & 1,700 \\
\hline Male (percent)............................................... & 87.5 & 92.3 & 81.3 & 68.4 & 78.0 \\
\hline Female (percent)........................................... & 12.5 & 7.7 & 18.7 & 31.6 & 22.0 \\
\hline Life and related sciences (number)...................... & 72,120 & 32,320 & 12,350 & 8,790 & 18,670 \\
\hline Male (percent).............................................. & 70.3 & 80.2 & 61.2 & 60.9 & 63.6 \\
\hline Female (percent)........................................... & 29.7 & 19.8 & 38.8 & 39.1 & 36.4 \\
\hline Physical and related sciences (number)................. & 38,290 & 18,250 & 4,400 & 3,790 & 11,850 \\
\hline Male (percent).............................................. & 88.5 & 94.4 & 80.6 & 79.3 & 85.4 \\
\hline Female (percent)........................................... & 11.5 & 5.6 & 19.4 & 20.7 & 14.6 \\
\hline Social and related sciences (number)................... & 68,630 & 39,710 & 11,900 & 5,930 & 11,090 \\
\hline Male (percent).............................................. & 67.5 & 77.3 & 57.5 & 48.4 & 53.4 \\
\hline Female (percent)........................................... & 32.5 & 22.7 & 42.5 & 51.6 & 46.6 \\
\hline Engineering (number)......................................... & 25,660 & 13,920 & 4,670 & 2,020 & 5,060 \\
\hline Male (percent)................................................ & 93.5 & 97.1 & 86.9 & 89.9 & 91.2 \\
\hline Female (percent)............................................ & 6.5 & 2.9 & 13.1 & 10.1 & 8.8 \\
\hline
\end{tabular}

NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 19. Doctoral scientists and engineers employed in universities and 4-year colleges, by broad field of doctorate, primary work activity, and secondary work activity: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Field of doctorate/ primary work activity} & \multirow[b]{3}{*}{Total} & & & & & & & Page 1 of 2 \\
\hline & & \multicolumn{7}{|r|}{Secondary work activity} \\
\hline & & Total & R\&D & Teaching & \[
\begin{array}{|c|}
\hline \text { Management, } \\
\text { sales, and } \\
\text { administration }
\end{array}
\] & Computer applications & Other & \(\qquad\) \\
\hline \multirow[b]{2}{*}{All fields} & & \multicolumn{7}{|c|}{[Percentage Distribution]} \\
\hline & & & & & & & & \\
\hline Total. & & 100.0 & 42.7 & 21.3 & 17.0 & 5.3 & 7.2 & 6.4 \\
\hline R\&D. & \[
88,910
\] & 100.0 & 26.9 & \multirow[t]{2}{*}{41.0} & 16.2 & 7.3 & 3.8 & \multirow[t]{2}{*}{4.8
88} \\
\hline Teaching................... & 96,880 & 100.0 & 63.1 & & 13.2 & 4.5 & 10.3 & \\
\hline Management, sales, and administration... & 21,010 & 100.0 & \multirow[t]{2}{*}{24.0
53.4} & 28.6 & 33.2 & \multirow[t]{2}{*}{2.8} & 10.0 & 8.8
1.3 \\
\hline Computer applications.......................... & 2,880 & 100.0 & & 15.2 & 20.2 & & 5.8 & 1.3
5.4 \\
\hline Other activities............... & 12,860 & \multirow[t]{2}{*}{100.0} & \multirow[t]{2}{*}{26.6} & \multirow[t]{2}{*}{35.1} & \multirow[t]{2}{*}{24.8} & \multirow[t]{2}{*}{2.7} & \multirow[t]{2}{*}{2.2} & \multirow[t]{2}{*}{8.6} \\
\hline Sciences & & & & & & & & \\
\hline Total... & 196,870 & 100.0 & 41.4 & 21.6 & 17.3 & 5.1 & 7.7 & 6.8 \\
\hline R\&D........................................... & 78,850 & 100.0 & 26.0 & 41.3 & 16.6 & 6.8 & 4.2 & 5.1 \\
\hline Teaching.................... & 84,770 & 100.0 & 61.7 & D & 13.2 & 4.5 & 11.2 & 9.4 \\
\hline Management, sales, and administration... & 18,510 & 100.0 & 22.7 & 28.9 & 33.6 & 3.0 & 10.6 & \multirow[t]{2}{*}{1.1
6.1} \\
\hline Computer applications.......................... & 2,360 & \multirow[t]{2}{*}{100.0
100.0} & \multirow[t]{2}{*}{48.6
26.6} & \multirow[t]{2}{*}{17.0
34.7} & \multirow[b]{2}{*}{\[
\begin{aligned}
& 21.6 \\
& 25.4
\end{aligned}
\]} & D & \multirow[b]{2}{*}{\[
\begin{aligned}
& 6.8 \\
& 1.9
\end{aligned}
\]} & \\
\hline Other activities.... & 12,380 & & & & & 2.5 & & 6.1
8.8 \\
\hline \multicolumn{9}{|l|}{Computer and mathematical sciences} \\
\hline Total.... & 17,830 & 100.0 & 44.7 & 21.0 & 11.2 & 10.2 & 5.5 & 7.4 \\
\hline R\&D. & 4,560 & 100.0 & 11.6 & 65.4 & 9.0 & 9.8 & 1.1 & \multirow[t]{2}{*}{3.1} \\
\hline Teaching... & 11,290 & 100.0 & 61.9 & D & 8.7 & 11.2 & 7.9 & \\
\hline Management, sales, and administration.... & 1,240 & 100.0 & 15.5 & 33.8 & 39.9 & 8.2 & S & S \\
\hline Computer applications........................... & 440 & \multirow[t]{2}{*}{100.0
100.0} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 36.2 \\
& 32.6
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 36.0 \\
& 59.3
\end{aligned}
\]} & \multirow[t]{2}{*}{22.0} & & S & S \\
\hline Other activities.................................... & 300 & & & & & S & S & S \\
\hline \multicolumn{9}{|l|}{Life and related sciences} \\
\hline Total... & 72,120 & 100.0 & 37.7 & 23.5 & 20.5 & 3.6 & 7.3 & 73 \\
\hline R\&D... & 38,710 & 100.0 & 28.6 & 34.1 & 21.0 & 4.4 & 5.0 & 7.0 \\
\hline Teaching.... & 20,890 & 100.0 & 59.1 & D & 15.3 & 3.3 & 12.6 & 9.8 \\
\hline Management, sales, and administration.... & 6,530 & 100.0 & 26.7 & 27.0 & 35.1 & 1.6 & 8.5 & 1.0 \\
\hline Computer applications........................... & 420 & \multirow[t]{2}{*}{100.0
100.0} & \multirow[t]{2}{*}{60.3
32.8} & \multirow[t]{2}{*}{S
35.2} & & D & 12.2 & \multirow[t]{2}{*}{S
8.0} \\
\hline Other activities............................. & 5,580 & & & & \[
\begin{aligned}
& 21.3 \\
& 19.3
\end{aligned}
\] & 2.7 & 12.2
2.0 & \\
\hline \multicolumn{9}{|l|}{Physical and related sciences} \\
\hline Total... & 38,290 & 100.0 & 43.3 & 19.9 & 15.4 & 9.6 & 4.6 & 7.1 \\
\hline R\&D............................................... & 17,920 & 100.0 & 31.7 & 35.4 & 12.3 & 14.3 & 2.2 & 4.2 \\
\hline Teaching............................................ & 14,680 & 100.0 & 60.1 & D & 14.9 & 6.5 & 7.3 & 11.2 \\
\hline Management, sales, and administration.... & 3,420 & 100.0 & 34.7 & 23.0 & 28.9 & 3.5 & 6.8 & 3.1 \\
\hline Computer applications........................... & 1,140 & 100.0 & 56.7 & 10.8 & 19.0 & D & S & 10.2 \\
\hline Other activities., & 1,130 & 100.0 & 21.8 & 33.5 & 27.9 & 5.0 & S & 9.0 \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table
}

Table 19. Doctoral scientists and engineers employed in universities and 4 -year colleges, by broad field of doctorate, primary work activity, and secondary work activity: 1995

Page 2 of 2


KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
\(\mathrm{D}=\) The same work activity cannot be reported for both primary and secondary.
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Täble 20. Employed doctoral scientists and engineers, by field of doctorate and sector of employment: 1995
\begin{tabular}{l|r|r|r|r|r|r|r|r|r} 
Page 1 of 1
\end{tabular}

KEY: \(\quad S=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline & & & & & & & & & Page 1 of 2 \\
\hline Occupation & Total & Universities and 4-year colleges & Other educational institutions & Private-forprofit & Selfemployed & Private not-forprofit & Federal government & State and local government & Other sector \\
\hline Total. & 484,780 & 222,530 & 12,410 & 146,720 & 28,550 & 23,840 & 34,650 & 13,330 & 2,750 \\
\hline Scientists............................................................... & 284,840 & 157,210 & 7,590 & 61,310 & 17,650 & 12,570 & 20,300 & 6,740 & 1,470 \\
\hline Computer and mathematical scientists. & 37,440 & 19,440 & 800 & 12,990 & 760 & 1,350 & 1,610 & 400 & 90 \\
\hline Computer and information scientists......................... & 14,170 & 1,480 & S & 10,670 & 530 & 700 & 480 & 230 & S \\
\hline Mathematical scientists.......................................... & 6,050 & 1,450 & S & 2,320 & 230 & 660 & 1,120 & 170 & S \\
\hline Postsecondary teachers, computer and mathematical sciences.
\(\qquad\) & 17,230 & 16,500 & 730 & S & S & S & S & S & S \\
\hline Life and related scientists.. & 85,990 & 56,200 & 1,530 & 14,340 & 1,210 & 3,450 & 7,690 & 1,420 & 160 \\
\hline Agricultural scientists.............................................. & 7,730 & 3,300 & S & 2,490 & 350 & 160 & 1,260 & 130 & S \\
\hline Biological scientists............................................... & 47,650 & 24,500 & S & 11,700 & 760 & 3,190 & 6,120 & 1,230 & 110 \\
\hline Forestry and conservation scientists........................ & 850 & 180 & S & 140 & 90 & 60 & 310 & 60 & S \\
\hline Postsecondary teachers, life and related sciences..... & 29,760 & 28,210 & 1,480 & S & S & S & S & S & S \\
\hline Physical and related scientists................................. & 65,900 & 31,920 & 1,500 & 22,170 & 1,200 & 2,160 & 6,220 & 600 & 130 \\
\hline Chemists, except biochemists................................. & 21,270 & 2,910 & S & 15,500 & 470 & 520 & 1,570 & 210 & 90 \\
\hline Earth scientists............................................................. & 8,590 & 2,790 & S & 2,310 & 350 & 580 & 2,290 & 270 & S \\
\hline Physicists and astronomers.................................... & 12,080 & 5,160 & S & 3,370 & 290 & 980 & 2,180 & 70 & S \\
\hline Other physical scientists......................................... & 1,760 & 400 & S & 950 & 90 & 80 & 170 & 60 & S \\
\hline Postsecondary teachers, physical and related sciences.
\(\qquad\) & 22,190 & 20,670 & 1,500 & S & S & S & S & S & S \\
\hline Social and related scientists..................................... & 95,510 & 49,660 & 3,750 & 11,810 & 14,480 & 5,610 & 4,790 & 4,320 & 1,090 \\
\hline Economists. & 5,800 & 1,030 & S & 1,620 & 390 & 280 & 1,390 & 210 & 880 \\
\hline Political scientists.................................................. & 1,110 & 540 & S & 130 & S & 150 & 240 & S & S \\
\hline Psychologists....................................................... & 41,010 & 5,300 & 1,940 & 9,540 & 13,630 & 4,530 & 2,370 & 3,560 & 160 \\
\hline Sociologists and anthropologists............................. & 2,600 & 930 & S & 280 & 300 & 330 & 460 & 250 & S \\
\hline S\&T historians and other social scientists................. & 2,130 & 870 & S & 220 & 150 & 310 & 280 & 250 & S \\
\hline Postsecondary teachers, social and related sciences.
\(\qquad\) & 42,870 & 41,000 & 1,770 & S & S & S & \[
50
\] & S & S \\
\hline
\end{tabular}
See explanatory information and SOURCE at end of table.
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline & & & & & & & & & Page 2 of 2 \\
\hline Occupation & Total & Universities and 4-year colleges & Other educational institutions & Private-forprofit & \[
\begin{gathered}
\text { Self- } \\
\text { employed }
\end{gathered}
\] & Private not-forprofit & Federal government & State and local government & \begin{tabular}{l}
Other \\
sector
\end{tabular} \\
\hline Engineers... & 58,430 & 20,970 & 140 & 30,100 & 1,750 & 1,410 & 3,380 & 510 & 170 \\
\hline Aerospace and related engineers.. & 3,630 & 320 & S & 2,240 & 150 & 240 & 670 & S & S \\
\hline Chemical engineers................... & 5,640 & 570 & S & 4,530 & 170 & 150 & 200 & S & S \\
\hline Civil and architectural engineers... & 2,790 & 380 & S & 1,580 & 250 & 80 & 270 & 200 & S \\
\hline Electric and related engineers........ & 10,660 & 1,070 & S & 8,070 & 500 & 340 & 630 & S & S \\
\hline Industrial engineers.................. & 840 & 220 & S & 560 & S & S & S & S & S \\
\hline Mechanical engineers... & 5,770 & 760 & S & 4,180 & 230 & 190 & 370 & S & S \\
\hline Other engineers.... & 13,590 & 2,250 & S & 8,950 & 430 & 380 & 1,230 & 270 & 90 \\
\hline Postsecondary teachers, engineering... & 15,530 & 15,400 & 130 & S & S & S & S & S & S \\
\hline Non-S\&E occupations.......................................... & 141,520 & 44,350 & 4,680 & 55,310 & 9,150 & 9,870 & 10,970 & 6,080 & 1,110 \\
\hline Managers, administrators, etc. & 83,820 & 21,270 & 1,290 & 39,440 & 1,930 & 6,500 & 8,260 & 4,260 & 860 \\
\hline Health and related occupations... & 13,450 & 4,760 & 90 & 3,750 & 1,780 & 1,220 & 1,110 & 580 & 150 \\
\hline Teachers, except S\&E postsecondary teachers........... & 18,920 & 15,960 & 2,830 & S & 60 & S & 50 & S & S \\
\hline Social services and related occupations..................... & 1,770 & 230 & 340 & S & 60 & 800 & 70 & 220 & S \\
\hline Technologists, etc................................................ & 5,340 & 760 & S & 3,570 & 360 & 190 & 290 & 130 & S \\
\hline Sales and marketing occupations............................ & 4,870 & S & S & 3,620 & 1,040 & 140 & S & S & S \\
\hline Other non-S\&E occupations................................... & 13,360 & 1,340 & 110 & 4,880 & 3,910 & 1,020 & 1,160 & 880 & 70 \\
\hline
\end{tabular}

> NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients


Page 1 of 1
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Field of doctorate} & \multirow[t]{2}{*}{Total} & \multicolumn{5}{|l|}{Research \& development} & \multirow[t]{2}{*}{Teaching} & \multirow[t]{2}{*}{Management, sales, and administration} & \multirow[t]{2}{*}{Computer applications} & \multirow[t]{2}{*}{Professional
sevices} & \multirow[t]{2}{*}{Other Activities} \\
\hline & & Total & Applied research & Basic research & Development & Design & & & & & \\
\hline Total. & 484,780 & 198,890 & 97,780 & 66,190 & 23,590 & 11,340 & 106,970 & 79,380 & 21,120 & 59,810 & 18,620 \\
\hline Sciences... & 406,130 & 159,880 & 78,280 & 62,300 & 14,200 & 5,100 & 94,290 & 63,560 & 14,590 & 57,760 & 16,050 \\
\hline Computer and mathematical sciences.... & 29,250 & 8,740 & 3,800 & 3,560 & 610 & 790 & 11,910 & 3,270 & 4,110 & 540 & 680 \\
\hline Computer and information sciences....... & 6,440 & 2,320 & 1,150 & 730 & 200 & 240 & 1,820 & 660 & 1,540 & S & 80 \\
\hline Mathematical sciences................. & 22,820 & 6,420 & 2,650 & 2,820 & 400 & 540 & 10,090 & 2,610 & 2,570 & 520 & 600 \\
\hline Life and related sciences... & 132,190 & 67,300 & 29,710 & 32,780 & 4,060 & 750 & 23,800 & 20,690 & 2,050 & 12,720 & 5,640 \\
\hline Agricultural and food sciences.................... & 15,440 & 8,230 & 5,830 & 1,430 & 870 & 90 & 1,940 & 3,020 & 390 & 770 & 1,100 \\
\hline Biological and health sciences... & 112,870 & 57,410 & 22,660 & 31,110 & 3,040 & 600 & 21,080 & 16,840 & 1,550 & 11,700 & 4,290 \\
\hline Environmental sciences............................ & 3,890 & 1,660 & 1,220 & 230 & 160 & 60 & 780 & 830 & 100 & 250 & 250 \\
\hline Physical and related sciences.. & 101,300 & 52,520 & 25,610 & 16,580 & 7,750 & 2,590 & 17,130 & 17,850 & 5,850 & 3,920 & 4,030 \\
\hline Chemistry, except biochemistry................ & 52,540 & 27,300 & 14,390 & 6,830 & 5,150 & 940 & 8,390 & 10,380 & 1,700 & 2,480 & 2,290 \\
\hline Geology and oceanography....................... & 13,090 & 6,640 & 3,690 & 2,580 & 310 & 60 & 2,890 & 1,830 & 590 & 470 & 690 \\
\hline Physics and astronomy.... & 34,410 & 17,920 & 7,060 & 7,030 & 2,280 & 1,560 & 5,630 & 5,500 & 3,530 & 840 & 980 \\
\hline Other physical sciences (incl. earth). & 1,260 & 660 & 470 & 140 & S & S & 220 & 150 & S & 130 & 70 \\
\hline Social and related sciences... & 143,390 & 31,310 & 19,160 & 9,390 & 1,780 & 980 & 41,450 & 21,750 & 2,590 & 40,580 & 5,700 \\
\hline Economics.. & 19,860 & 6,810 & 4,840 & 1,460 & 340 & 170 & 7,550 & 3,170 & 280 & 1,150 & 900 \\
\hline Political and related sciences... & 14,790 & 3,010 & 1,820 & 790 & 240 & 160 & 6,780 & 2,890 & 310 & 830 & 970 \\
\hline Psychology............................ & 75,810 & 12,420 & 6,980 & 4,260 & 720 & 460 & 12,990 & 10,350 & 1,100 & 36,520 & 2,440 \\
\hline Sociology and anthropology........ & 20,530 & 5,630 & 3,330 & 2,000 & 210 & 90 & 9,180 & 3,290 & 440 & 1,170 & 820 \\
\hline Other social sciences... & 12,410 & 3,440 & 2,200 & 870 & 260 & 110 & 4,960 & 2,050 & 470 & 920 & 570 \\
\hline Engineering.... & 78,650 & 39,010 & 19,500 & 3,890 & 9,390 & 6,240 & 12,680 & 15,810 & 6,530 & 2,050 & 2,570 \\
\hline Aerospace/aeronautical............................ & 3,350 & 1,690 & 1,030 & 180 & 280 & 200 & 590 & 690 & 260 & S & 100 \\
\hline Chemical................. & 10,930 & 5,990 & 2,790 & 590 & 1,700 & 910 & 980 & 2,640 & 650 & 200 & 480 \\
\hline Civil. & 7,400 & 3,070 & 1,490 & 220 & 390 & 970 & 1,720 & 1,450 & 530 & 410 & 230 \\
\hline Electrical/computer............................. & 20,780 & 9,920 & 4,650 & 860 & 2,920 & 1,500 & 3,080 & 4,430 & 2,500 & 260 & 590 \\
\hline Industrial.. & 2,240 & 580 & 360 & S & S & 130 & 940 & 440 & 220 & S & S \\
\hline Mechanical. & 9,710 & 5,100 & 2,410 & 520 & 1,320 & 850 & 1,750 & 1,640 & 720 & 220 & 280 \\
\hline Other engineering.................................... & 24,230 & 12,660 & 6,770 & 1,480 & 2,730 & 1,690 & 3,630 & 4,520 & 1,660 & 890 & 870 \\
\hline
\end{tabular} KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)

NOTE: All numbers in the table are estimates derived from a sample. Percentage distributions are provided in Table 36.

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{Occupation} & \multirow[t]{3}{*}{Total} & \multicolumn{5}{|l|}{\multirow[t]{2}{*}{Research \& development}} & & \multirow[t]{3}{*}{\[
\begin{array}{|c}
\text { Management, } \\
\text { sales, and } \\
\text { administration }
\end{array}
\]} & \multirow[t]{3}{*}{Computer applications} & \multirow[t]{3}{*}{\[
\left\{\begin{array}{c}
\text { Protessional } \\
\text { sevices }
\end{array}\right.
\]} & Page 1 of 2 \\
\hline & & & & & & & \multirow[t]{2}{*}{} & & & & \\
\hline & & Total & Applied research & Basic research & Development & Design & & & & & Other Activities \\
\hline Total. & 484,780 & 198,890 & 97,780 & 66,190 & 23,590 & 11,340 & 106,970 & 79,380 & 21,120 & 59,810 & 18,620 \\
\hline Scientists.... & 284,840 & 135,410 & 64,460 & 58,810 & 8,760 & 3,370 & 78,840 & 11,960 & 11,740 & 39,630 & 7,270 \\
\hline Computer and mathematical scientists... & 37,440 & 12,320 & 5,850 & 3,860 & 1,080 & 1,530 & 13,410 & 1,330 & 9,000 & 580 & 820 \\
\hline Computer and information scientists... & 14,170 & 4,830 & 2,300 & 570 & 790 & 1,180 & S & 890 & 7,680 & 240 & 490 \\
\hline Mathematical scientists........ & 6,050 & 4,020 & 2,800 & 570 & 290 & 350 & S & 280 & 1,200 & 280 & 220 \\
\hline Postsecondary teachers, computer and mathematical sciences.
\(\qquad\) & 17,230 & 3,470 & 750 & 2,720 & s & S & 13,330 & 150 & 130 & 50 & 110 \\
\hline Life and related scientists.... & 85,990 & 60,910 & 24,580 & 33,700 & 2,280 & 350 & 16,320 & 3,440 & 670 & 2,650 & 2,000 \\
\hline Agricultural scientists... & 7,730 & 6,170 & 4,820 & 740 & 600 & S & 80 & 600 & 80 & 480 & 320 \\
\hline Biological scientists.. & 47,650 & 41,990 & 16,510 & 23,580 & 1,610 & 300 & 190 & 2,070 & 510 & 1,490 & 1,400 \\
\hline Forestry and conservation scientists. & 850 & 650 & 480 & 120 & S & S & S & 70 & S & S & 80 \\
\hline Postsecondary teachers, life and related sciences......... & 29,760 & 12,110 & 2,770 & 9,260 & 70 & S & 16,040 & 700 & S & 660 & 210 \\
\hline Physical and related scientists... & 65,900 & 41,390 & 21,160 & 14,230 & 4,760 & 1,250 & 16,140 & 3,390 & 1,740 & 1,120 & 2,110 \\
\hline Chemists, except biochemists..... & 21,270 & 18,020 & 11,150 & 2,880 & 3,480 & 510 & 110 & 1,680 & 230 & 350 & 880 \\
\hline Earth scientists.................. & 8,590 & 6,690 & 4,220 & 2,170 & 230 & 70 & 50 & 580 & 480 & 290 & 490 \\
\hline Physicists and astronomers...... & 12,080 & 10,010 & 4,480 & 4,110 & 810 & 610 & 60 & 610 & 830 & 330 & 240 \\
\hline Other physical scientists... & 1,760 & 1,190 & 590 & 320 & 230 & 60 & S & 150 & 70 & 90 & 270 \\
\hline Postsecondary teachers, physical and related sciences.
\(\qquad\) & 22,190 & 5,470 & 710 & 4,740 & S & S & 15,930 & 380 & 120 & 60 & 240 \\
\hline Social and related scientists..... & 95,510 & 20,790 & 12,870 & 7,030 & 640 & 240 & 32,970 & 3,800 & 320 & 35,290 & 2,340 \\
\hline Economists... & 5,800 & 3,990 & 3,410 & 370 & 140 & 70 & S & 470 & 160 & 600 & 550 \\
\hline Political scientists.. & 1,110 & 690 & 480 & 150 & 60 & S & S & 90 & S & 110 & 160 \\
\hline Psychologists..................................... & 41,010 & 4,300 & 2,970 & 950 & 270 & 110 & 260 & 1,820 & 60 & 33,680 & 890 \\
\hline Sociologists and anthropologists............................... & 2,600 & 2,080 & 1,420 & 660 & S & S & S & 140 & S & 160 & 170 \\
\hline S\&T historians and other social scientists................. & 2,130 & 1,620 & 1,350 & 170 & 70 & S & S & 160 & S & 70 & 210 \\
\hline Postsecondary teachers, social and related sciences.... & 42,870 & 8,120 & 3,250 & 4,740 & 100 & S & 32,600 & 1,120 & S & 660 & 360 \\
\hline
\end{tabular}


Page 1 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Geographic location & Total & Sciences & Computer and mathematical sciences & Life and related sciences & Physical and related sciences & Social and related sciences & Engineering \\
\hline Total. & 484,780 & 406,130 & 29,250 & 132,190 & 101,300 & 143,390 & 78,650 \\
\hline & \multicolumn{7}{|c|}{[Percentage distribution]} \\
\hline New England............................. & 7.9 & 8.0 & 7.6 & 7.7 & 8.2 & 8.1 & 7.4 \\
\hline Connecticut............................ & 1.6 & 1.7 & 1.1 & 1.7 & 1.9 & 1.7 & 1.4 \\
\hline Maine... & 0.4 & 0.5 & 0.3 & 0.4 & 0.4 & 0.6 & 0.3 \\
\hline Massachusetts.......................... & 4.6 & 4.7 & 4.8 & 4.6 & 5.0 & 4.5 & 4.3 \\
\hline New Hampshire........................ & 0.4 & 0.4 & 0.6 & 0.2 & 0.5 & 0.4 & 0.5 \\
\hline Rhode Island........................... & \multirow[t]{2}{*}{0.5
0.3} & 0.5 & \multirow[t]{2}{*}{0.6
\(S\)} & 0.4 & 0.3 & 0.6 & 0.6 \\
\hline Vermont.................................. & & 0.3 & & 0.4 & 0.1 & 0.4 & 0.4 \\
\hline Middle Atlantic........................... & 16.8 & 17.1 & 16.9 & 15.1 & 17.7 & 18.5 & 15.5 \\
\hline New Jersey.............................. & 4.0 & 3.9 & 4.7 & 3.1 & 5.9 & 3.0 & 4.7 \\
\hline New York................................ & \multirow[t]{2}{*}{\[
\begin{aligned}
& 8.0 \\
& 4.8
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 8.4 \\
& 4.8
\end{aligned}
\]} & 8.3 & 7.2 & 6.9 & 10.6 & \multirow[t]{2}{*}{6.4
4.4} \\
\hline Pennsylvania............................ & & & 3.9 & 4.8 & 4.9 & 5.0 & \\
\hline East North Central....................... & 13.9 & 13.7 & 13.5 & 13.7 & 13.4 & 13.8 & 14.9 \\
\hline Illinois..................................... & 4.2 & 4.3 & 4.9 & 4.3 & 4.0 & 4.3 & 3.7 \\
\hline Indiana................................. & 1.6 & 1.6 & 1.4 & 1.7 & 1.3 & 1.8 & 1.7 \\
\hline Michigan................................. & 3.0 & 2.7 & 2.4 & 2.9 & 2.7 & 2.6 & \multirow[t]{2}{*}{4.0
4.4} \\
\hline Ohio...................................... & \multirow[t]{2}{*}{\[
\begin{aligned}
& 3.6 \\
& 1.5
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 3.5 \\
& 1.6
\end{aligned}
\]} & \multirow[t]{2}{*}{3.6
1.1} & \multirow[t]{2}{*}{3.0
1.8} & \multirow[t]{2}{*}{4.1
1.2} & 3.5 & \\
\hline Wisconsin............................. & & & & & & 1.7 & 4.4
1.1 \\
\hline West North Central...................... & 6.1 & 6.4 & 5.7 & 7.6 & 4.9 & 6.4 & 4.7 \\
\hline Iowa....................................... & 0.9 & 0.9 & 1.0 & 1.0 & 0.7 & 0.9 & 0.7 \\
\hline Kansas............................ & 0.7 & 0.7 & 0.8 & 1.0 & 0.3 & 0.8 & 0.5 \\
\hline Minnesota............................... & 1.8 & 1.8 & 1.1 & 1.9 & 1.9 & 1.8 & 1.5 \\
\hline Missouri... & 1.7 & 1.8 & 2.3 & 2.2 & 1.5 & 1.6 & 1.4 \\
\hline North Dakota.. & 0.3 & 0.3 & S & 0.5 & 0.1 & 0.3 & 0.2 \\
\hline Nebraska.......................... & \multirow[t]{2}{*}{\[
\begin{aligned}
& 0.5 \\
& 0.2
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 0.6 \\
& 0.2
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{gathered}
0.3 \\
S
\end{gathered}
\]} & 0.8 & \multirow[t]{2}{*}{0.3
0.1} & \multirow[t]{2}{*}{0.6
0.3} & \multirow[t]{2}{*}{0.3
0.1} \\
\hline South Dakota............................ & & & & 0.3 & & & \\
\hline South Atlantic... & 18.9 & 19.4 & 19.5 & 19.8 & 17.6 & 20.4 & 15.9 \\
\hline Delaware............................... & 0.7 & 0.6 & 0.2 & 0.7 & 1.1 & 0.4 & 0.8 \\
\hline Dist of Columbia...................... & 2.8 & 3.0 & 2.4 & 1.7 & 2.0 & 5.1 & \multirow[t]{2}{*}{1.3
2.9} \\
\hline Florida..... & 2.6 & 2.6 & 1.6 & 2.4 & 2.0 & 3.3 & \\
\hline Georgia.................................. & 2.0 & 2.1 & 1.8 & 2.3 & 1.6 & 2.2 & 1.4 \\
\hline Maryland................................. & 4.0 & 4.2 & 4.3 & 5.5 & 3.8 & 3.2 & 3.1 \\
\hline North Carolina...................... & 2.6 & 2.8 & 3.4 & 3.6 & 2.3 & 2.2 & 1.9 \\
\hline South Carolina.......................... & 0.9 & 0.9 & 0.8 & 1.0 & 0.9 & 0.7 & 0.8 \\
\hline Virginia................................... & 3.0 & 2.9 & 4.7 & 2.1 & 3.4 & 3.1 & 3.2 \\
\hline West Virginia............................ & 0.4 & 0.4 & S & 0.4 & 0.5 & 0.3 & 0.5 \\
\hline East South Central...................... & 4.1 & 4.1 & 5.1 & 4.4 & 3.7 & 3.9 & 4.2 \\
\hline Alabama.................................. & 1.1 & 1.0 & 1.6 & 1.3 & 0.8 & 0.8 & 1.5 \\
\hline Kentucky................................. & 0.8 & 0.8 & 1.6 & 0.8 & 0.6 & 0.9 & 0.5 \\
\hline Mississippi.............................. & 0.6 & 0.6 & S & 0.8 & 0.5 & 0.5 & 0.6 \\
\hline Tennessee.............................. & 1.6 & 1.7 & 1.8 & 1.5 & 1.8 & 1.8 & 1.5 \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Geographic location & Total & Sciences & Computer and mathematical sciences & \begin{tabular}{l}
Life and related \\
sciences
\end{tabular} & Physical and related sciences & Social and related sciences & Engineering \\
\hline & \multicolumn{7}{|c|}{[Percentage distribution]} \\
\hline West South Central.... & 8.0 & 7.8 & 8.1 & 8.6 & 8.4 & 6.5 & 9.3 \\
\hline Arkansas......................... & 0.4 & 0.5 & 0.3 & 0.5 & 0.4 & 0.5 & 0.3 \\
\hline Louisiana........................ & 1.0 & 1.1 & 0.8 & 1.3 & 1.1 & 0.9 & 0.9 \\
\hline Oklahoma........................ & 0.9 & 0.8 & 0.7 & 1.0 & 0.7 & 0.9 & 1.0 \\
\hline Texas............................ & 5.7 & 5.4 & 6.3 & 5.7 & 6.2 & 4.3 & 7.1 \\
\hline Mountain.......................... & 6.5 & 6.2 & 6.4 & 5.8 & 7.9 & 5.4 & 8.2 \\
\hline Arizona.......................... & 1.2 & 1.1 & 1.1 & 1.0 & 1.0 & 1.2 & 1.8 \\
\hline Colorado......................... & 2.0 & 1.9 & 1.9 & 1.8 & 2.6 & 1.5 & 2.2 \\
\hline Idaho............................ & 0.4 & 0.3 & 0.4 & 0.5 & 0.2 & 0.3 & 0.4 \\
\hline Montana......................... & 0.3 & 0.4 & 0.4 & 0.5 & 0.2 & 0.4 & 0.1 \\
\hline New Mexico.................... & 1.3 & 1.1 & 1.5 & 0.7 & 2.3 & 0.6 & 2.2 \\
\hline Nevada........................... & 0.3 & 0.3 & 0.4 & 0.2 & 0.4 & 0.3 & 0.3 \\
\hline Utah............................. & 0.9 & 0.9 & 0.7 & 0.9 & 0.9 & 0.8 & 1.0 \\
\hline Wyoming........................ & 0.1 & 0.1 & S & 0.1 & 0.2 & 0.2 & 0.1 \\
\hline Pacific.............................. & 17.5 & 17.1 & 17.1 & 17.0 & 18.0 & 16.7 & 19.6 \\
\hline Alaska............................ & 0.2 & 0.3 & S & 0.2 & 0.3 & 0.3 & 0.2 \\
\hline California......................... & 13.1 & 12.6 & 13.6 & 11.6 & 14.4 & 12.2 & 15.8 \\
\hline Hawaii...................... & 0.5 & 0.5 & 0.3 & 0.6 & 0.4 & 0.6 & 0.2 \\
\hline Oregon.......................... & 1.1 & 1.1 & 1.0 & 1.6 & 0.7 & 1.1 & 1.0 \\
\hline Washington..................... & 2.3 & 2.4 & 1.9 & 2.8 & 2.2 & 2.2 & 2.2 \\
\hline U.S. possessions.............. & 0.5 & 0.5 & 0.4 & 0.6 & 0.5 & 0.5 & 0.5 \\
\hline
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 25. Employed doctoral scientists and engineers, by geographic location and broad occupation: 1995


See explanatory information and SOURCE at end of table.

Table 25. Employed doctoral scientists and engineers, by geographic location and broad occupation: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Geographic location} & \multicolumn{8}{|r|}{Page 2 of 2} \\
\hline & Total & Scientists & Computer and mathematical scientists & Life and related scientists & Physical and related scientists & Social and related scientists & Engineers & Non-S\&E occupations \\
\hline & \multicolumn{8}{|c|}{[Percentage distribution]} \\
\hline West South Central.... & 8.0 & 8.0 & 8.6 & 8.8 & 8.2 & 6.8 & 9.6 & 7.5 \\
\hline Arkansas................................ & 0.4 & 0.5 & 0.2 & 0.6 & 0.4 & 0.5 & 0.3 & 0.4 \\
\hline Louisiana.............................. & 1.0 & 1.1 & 1.1 & 1.3 & 1.2 & 0.8 & 1.1 & 0.9 \\
\hline Oklahoma.. & 0.9 & 0.9 & 0.7 & 1.0 & 0.7 & 1.0 & 1.0 & 0.8 \\
\hline Texas................................... & 5.7 & 5.5 & 6.7 & 5.9 & 5.9 & 4.4 & 7.2 & 5.4 \\
\hline Mountain................................. & 6.5 & 6.3 & 6.2 & 5.3 & 9.0 & 5.4 & 8.5 & 6.1 \\
\hline Arizona.............................. & 1.2 & 1.0 & 1.1 & 0.8 & 1.1 & 1.2 & 1.9 & 1.3 \\
\hline Colorado............................ & 2.0 & 2.1 & 1.9 & 1.9 & 3.0 & 1.6 & 2.3 & 1.7 \\
\hline Idaho................................ & 0.4 & 0.3 & 0.3 & 0.4 & 0.4 & 0.3 & 0.4 & 0.4 \\
\hline Montana............................ & 0.3 & 0.3 & 0.3 & 0.4 & 0.2 & 0.4 & 0.2 & 0.3 \\
\hline New Mexico........................... & 1.3 & 1.1 & 1.1 & 0.6 & 2.8 & 0.6 & 2.0 & 1.3 \\
\hline Nevada................................. & 0.3 & 0.4 & 0.3 & 0.2 & 0.5 & 0.4 & 0.4 & 0.2 \\
\hline Utah...................................... & 0.9 & 0.9 & 1.0 & 0.9 & 0.8 & 0.8 & 1.1 & 0.9 \\
\hline Wyoming............................... & 0.1 & 0.2 & S & 0.1 & 0.2 & 0.2 & 0.2 & 0.1 \\
\hline Pacific.................................... & 17.5 & 16.9 & 18.0 & 17.2 & 16.8 & 16.4 & 19.6 & 17.9 \\
\hline Alaska.................................. & 0.2 & 0.3 & S & 0.2 & 0.3 & 0.3 & 0.2 & 0.3 \\
\hline California............................. & 13.1 & 12.5 & 13.8 & 11.5 & 13.2 & 12.4 & 15.7 & 13.3 \\
\hline Hawaii.................................. & 0.5 & 0.5 & S & 0.7 & 0.5 & 0.5 & 0.3 & 0.5 \\
\hline Oregon................................. & 1.1 & 1.1 & 1.4 & 1.7 & 0.5 & 0.8 & 0.9 & 1.2 \\
\hline Washington............................ & 2.3 & 2.3 & 2.5 & 2.8 & 2.0 & 2.1 & 2.3 & 2.3 \\
\hline U.S. possessions.................... & 0.5 & 0.5 & 0.5 & 0.6 & 0.4 & 0.5 & 0.6 & 0.6 \\
\hline
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Page 1 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Field of doctorate} & \multicolumn{3}{|c|}{Total} & \multicolumn{3}{|c|}{White} & \multicolumn{3}{|c|}{Black} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total. & 484,780 & 379,480 & 105,300 & 402,600 & 314,190 & 88,410 & 10,500 & 6,980 & 3,530 \\
\hline Sciences.. & 406,130 & 304,880 & 101,250 & 348,280 & 262,570 & 85,710 & 9,400 & 5,950 & 3,450 \\
\hline Computer and mathematical sciences... & 29,250 & 25,560 & 3,700 & 22,960 & 20,170 & 2,790 & \multirow[t]{2}{*}{430
80} & \multirow[t]{2}{*}{350
S} & \multirow[t]{2}{*}{80
\(S\)} \\
\hline Computer and information sciences... & 6,440 & 5,430 & 1,000 & 4,330 & 3,590 & 740 & & & \\
\hline Mathematical sciences.. & 22,820 & 20,120 & 2,690 & 18,640 & 16,580 & 2,060 & 350 & 300 & 50 \\
\hline Life and related sciences. & 132,190 & 95,740 & 36,460 & 113,580 & 83,020 & 30,560 & 2,710 & 1,690 & 1,020 \\
\hline Agricultural and food sciences... & 15,440 & 13,260 & 2,180 & 12,980 & 11,270 & 1,720 & 240 & 220 & S \\
\hline Biological and health sciences... & \multirow[t]{2}{*}{\[
\begin{array}{r}
112,870 \\
3,890
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
78,920 \\
3,560
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
33,960 \\
330
\end{array}
\]} & 97,080 & 68,520 & 28,570 & \multirow[t]{2}{*}{2,430
S} & 1,430 & 1,000 \\
\hline Environmental sciences.. & & & & 3,510 & 3,240 & 270 & & S & S \\
\hline Physical and related sciences... & 101,300 & 90,300 & 11,000 & 84,350 & 76,140 & 8,210 & 1,220 & 1,120 & 100 \\
\hline Chemistry, except biochemistry... & 52,540 & 45,240 & 7,300 & 43,020 & 37,660 & 5,360 & 870 & 790 & 80 \\
\hline Geology and oceanography........ & \multirow[t]{2}{*}{\[
\begin{aligned}
& 13,090 \\
& 34,410
\end{aligned}
\]} & 11,570 & 1,520 & 11,920 & 10,570 & 1,350 & S & S & S \\
\hline Physics and astronomy... & & 32,480 & 1,930 & 28,320 & 27,060 & 1,260 & 300 & 290 & S \\
\hline Other physical sciences (incl. earth) & 1,260 & 1,000 & 260 & 1,090 & 850 & 240 & S & S & S \\
\hline Social and related sciences.. & 143,390 & 93,300 & 50,090 & 127,390 & 83,250 & 44,150 & 5,040 & 2,790 & 2,250 \\
\hline Economics.. & 19,860 & 17,110 & 2,740 & 16,910 & 14,690 & 2,220 & 460 & 380 & 80 \\
\hline Political and related sciences... & 14,790 & 11,800 & 2,990 & 12,660 & 10,100 & 2,560 & 770 & 550 & 220 \\
\hline Psychology.... & \multirow[t]{2}{*}{\[
\begin{aligned}
& 75,810 \\
& 20,530
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 43,680 \\
& 12,660
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
32,120 \\
7,880
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 69,380 \\
& 18,250
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 40,530 \\
& 11,310
\end{aligned}
\]} & 28,850 & 2,470 & 1,080 & 1,400 \\
\hline Sociology and anthropology.. & & & & & & 6,940 & 870 & 530 & 340 \\
\hline Other social sciences... & 12,410 & 8,050 & 4,360 & 10,200 & 6,620 & 3,580 & 470 & 260 & 210 \\
\hline Engineering..... & 78,650 & 74,600 & 4,050 & 54,330 & 51,620 & \multirow[t]{2}{*}{2,710
S} & 1,100 & 1,020 & 80 \\
\hline Aerospace/aeronautical... & \multirow[t]{2}{*}{\[
\begin{array}{r}
3,350 \\
10,930
\end{array}
\]} & 3,320 & S & 2,550 & 2,530 & & 70 & 70 & S \\
\hline Chemical. & & 10,360 & 580 & 7,590 & 7,210 & \[
380
\] & 150 & 110 & S \\
\hline Civil. & \multirow[t]{2}{*}{\[
\begin{array}{r}
7,400 \\
20,780
\end{array}
\]} & 7,070 & 330 & 4,920 & 4,660 & 260 & 130 & 120 & S \\
\hline Electrical/computer... & & \multirow[t]{2}{*}{\[
\begin{array}{r}
19,910 \\
1,940
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 870 \\
& 310
\end{aligned}
\]} & 14,090 & 13,600 & \multirow[t]{2}{*}{480
270} & \multirow[t]{2}{*}{280
\(S\)} & \multirow[t]{2}{*}{270} & \multirow[t]{4}{*}{S
S
S
S} \\
\hline Industrial. & \multirow[t]{3}{*}{\[
\begin{array}{r}
2,240 \\
9,710 \\
24,230 \\
\hline
\end{array}
\]} & & & 1,600 & 1,340 & & & & \\
\hline Mechanical.. & & \multirow[t]{2}{*}{\[
\begin{array}{r}
9,420 \\
22,590 \\
\hline
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
290 \\
1,640 \\
\hline
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
6,380 \\
17,210 \\
\hline
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
6,250 \\
16,040 \\
\hline
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
130 \\
1,170 \\
\hline
\end{array}
\]} & \multirow[t]{2}{*}{140
300} & 140 & \\
\hline Other engineering.... & & & & & & & & 290 S & \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Field of doctorate} & \multicolumn{3}{|l|}{Asian or Pacific Islander} & \multicolumn{3}{|c|}{Hispanic} & \multicolumn{3}{|c|}{Native American} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total.... & 58,660 & 48,630 & 10,030 & 11,110 & 8,270 & 2,840 & 1,820 & 1,360 & 470 \\
\hline Sciences... & 37,360 & 28,460 & 8,900 & 9,360 & 6,640 & 2,730 & 1,660 & 1,200 & 450 \\
\hline Computer and mathematical sciences........ & 4,930 & 4,240 & 690 & 870 & 740 & 130 & S & S & S \\
\hline Computer and information sciences......... & 1,840 & 1,630 & 210 & 190 & 160 & S & S & S & S \\
\hline Mathematical sciences.. & 3,090 & 2,610 & 480 & 680 & 580 & 100 & S & S & S \\
\hline Life and related sciences... & 12,880 & 8,980 & 3,900 & 2,580 & 1,780 & 800 & 450 & 270 & 180 \\
\hline Agricultural and food sciences................ & 1,830 & 1,470 & 360 & 380 & 300 & 80 & S & S & S \\
\hline Biological and health sciences................ & 10,810 & 7,310 & 3,500 & 2,160 & 1,450 & 710 & 380 & 210 & 170 \\
\hline Environmental sciences............. & 240 & 200 & S & S & S & S & 50 & S & S \\
\hline Physical and related sciences.... & 13,370 & 10,970 & 2,400 & 2,080 & 1,800 & 280 & 250 & 240 & S \\
\hline Chemistry, except biochemistry...... & 7,220 & 5,570 & 1,650 & 1,270 & 1,080 & 200 & 160 & 150 & S \\
\hline Geology and oceanography................... & 870 & 730 & 140 & 240 & 220 & S & S & S & S \\
\hline Physics and astronomy........................ & 5,160 & 4,560 & 610 & 560 & 510 & 50 & S & S & S \\
\hline Other physical sciences (incl. earth).... & 120 & 110 & S & S & S & S & S & S & S \\
\hline Social and related sciences... & 6,170 & 4,270 & 1,910 & 3,840 & 2,320 & 1,520 & 910 & 650 & 260 \\
\hline Economics.... & 2,050 & 1,660 & 400 & 370 & 320 & S & 80 & 80 & S \\
\hline Political and related sciences. & 760 & 660 & 110 & 480 & 370 & 100 & 110 & 110 & S \\
\hline Psychology..................... & 1,450 & 750 & 700 & 2,030 & 1,080 & 960 & 460 & 250 & 210 \\
\hline Sociology and anthropology................... & 660 & 380 & 280 & 600 & 310 & 290 & 140 & 110 & S \\
\hline Other social sciences..... & 1,250 & 820 & 430 & 360 & 240 & 120 & 130 & 100 & S \\
\hline Engineering.............. & 21,310 & 20,180 & 1,130 & 1,740 & 1,630 & 120 & 170 & 150 & S \\
\hline Aerospace/aeronautical.... & 660 & 650 & S & 80 & 80 & S & S & S & S \\
\hline Chemical.. & 2,910 & 2,770 & 150 & 280 & 270 & S & S & S & S \\
\hline Civil. & 2,140 & 2,070 & 70 & 210 & 200 & S & S & S & S \\
\hline Electrical/computer.. & 5,850 & 5,490 & 350 & 500 & 490 & S & 60 & 60 & S \\
\hline Industria.............. & 550 & 520 & S & S & S & S & S & S & S \\
\hline Mechanical............ & 3,010 & 2,890 & 120 & 160 & 140 & S & S & S & S \\
\hline Other engineering........ & 6,190 & 5,780 & 410 & 470 & 420 & S & 60 & 60 & S \\
\hline
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Page 1 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Occupation} & \multicolumn{3}{|c|}{Total} & \multicolumn{3}{|c|}{White} & \multicolumn{3}{|c|}{Black} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Femal \\
\hline Total. & 484,780 & 379,480 & 105,300 & 402,600 & 314,190 & 88,410 & 10,500 & 6,980 & 3,530 \\
\hline Scientists. & 284,840 & 215,150 & 69,690 & 241,170 & 182,770 & 58,400 & 5,920 & 3,890 & 2,030 \\
\hline Computer and mathematical scientists. & 37,440 & 32,690 & 4,750 & 28,430 & 25,000 & 3,430 & 550 & 460 & 90 \\
\hline Computer and information scientists.. & & 12,730 & 1,430 & 10,200 & 9,250 & 960 & 100 & 80 & S \\
\hline Mathematical scientists. & \[
6,050
\] & 4,970 & 1,080 & 4,530 & 3,700 & 830 & 120 & 90 & S \\
\hline Postsecondary teachers, computer and mathematical sciences & 17,230 & 14,990 & 2,240 & 13,700 & 12,060 & 1,640 & 330 & 280 & S \\
\hline Life and related scientists. & 85,990 & 64,010 & 21,980 & 72,580 & 54,880 & 17,710 & 1,410 & 950 & \multirow[t]{2}{*}{450} \\
\hline Agricultural scientists. & 7,730 & 6,720 & 1,020 & 6,690 & 5,880 & 820 & 90 & 70 & \\
\hline Biological scientists.. & \multirow[t]{2}{*}{77,650
850} & 33,470 & 14,170 & 38,260 & 27,330 & 10,930 & \multirow[t]{2}{*}{610
\(S\)} & \multirow[t]{2}{*}{410
\(S\)} & \multirow[t]{2}{*}{\[
\begin{gathered}
200 \\
S
\end{gathered}
\]} \\
\hline Forestry and conservation scientists. & & 720 & 130 & 810 & 700 & 110 & & & \\
\hline Postsecondary teachers, life and related sciences. & 29,760 & 23,090 & 6,670 & 26,820 & 20,980 & 5,850 & 680 & 450 & 230 \\
\hline Physical and related scientists.. & 65,900 & 58,160 & 7,730 & 55,000 & 49,040 & 5,960 & 930 & 870 & 70 \\
\hline Chemists, except biochemists. & 21,270 & 18,350 & \multirow[t]{2}{*}{2,920
930} & 16,530 & 14,450 & 2,080 & 420 & 400 & S \\
\hline Earth scientists.. & \multirow[t]{2}{*}{\[
\begin{array}{r}
8,590 \\
12,080
\end{array}
\]} & 7,660 & & 7,700 & 6,840 & 860 & S & S & S \\
\hline Physicists and astronomers. & & \multirow[t]{2}{*}{\[
\begin{array}{r}
11,290 \\
1,500
\end{array}
\]} & \[
\begin{aligned}
& 930 \\
& 790
\end{aligned}
\] & \multirow[t]{2}{*}{7,030
1,470} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 9,520 \\
& 1,310
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 510 \\
& 160
\end{aligned}
\]} & \multirow[t]{2}{*}{60
\(S\)} & \multirow[t]{2}{*}{60
\(S\)} & S \\
\hline Other physical scientists.. & 1,760 & & 260 & & & & & & S \\
\hline Postsecondary teachers, physical and related sciences. & 22,190 & 19,350 & 2,840 & 19,260 & 16,910 & 2,350 & 410 & 370 & S \\
\hline Social and related scientists.. & 95,510 & 60,290 & 35,220 & 85,160 & 53,850 & 31,300 & \multirow[t]{2}{*}{3,030
100} & 1,620 & 1,420 \\
\hline Economists. & \multirow[t]{2}{*}{\[
\begin{aligned}
& 5,800 \\
& 1,110
\end{aligned}
\]} & 4,510 & 1,290 & 4,680 & 3,710 & 970 & & 70 & S \\
\hline Political scientists. & & 870 & 240 & 880 & 650 & 220 & S & S & S \\
\hline Psychologists... & 41,010 & 21,850 & 19,160 & 37,800 & 20,400 & 17,400 & 1,170 & 450 & 720 \\
\hline Sociologists and anthropologists. & \multirow[t]{2}{*}{\[
\begin{aligned}
& 2,600 \\
& 2,130
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 1,550 \\
& 1,180
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
1,040 \\
950
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 2,460 \\
& 1,830
\end{aligned}
\]} & 1,520 & 950 & 60 & S & \multirow[t]{2}{*}{S} \\
\hline S\&T historians and other social scientists & & & & & 1,040 & 790 & 50 & S & \\
\hline Postsecondary teachers, social and related sciences. & 42,870 & 30,320 & 12,550 & 37,510 & 26,540 & 10,970 & 1,620 & 1,020 & 600 \\
\hline Engineers...... & 58,430 & 55,120 & 3,300 & \multirow[t]{2}{*}{40,250
2,640} & 38,040 & 2,220 & 810 & 710 & 100 \\
\hline Aerospace and related engineers.. & 3,630 & 3,500 & 130 & & 2,540 & 100 & S & S & S \\
\hline Chemical engineers.. & \multirow[t]{2}{*}{\[
\begin{array}{r}
5,640 \\
2,790
\end{array}
\]} & 5,240 & 400 & 3,750 & 3,520 & 230 & 100 & 70 & S \\
\hline Civil and architectural engineers... & & 2,680 & 110 & 1,530 & 1,470 & 70 & S & S & S \\
\hline Electric and related engineers. & \[
\begin{array}{r}
2,790 \\
10,660
\end{array}
\] & 10,260 & 400 & 6,970 & 6,820 & 150 & 100 & 90 & S \\
\hline Industrial engineers..... & \multirow[t]{2}{*}{840
5,770} & \multirow[t]{2}{*}{\[
\begin{array}{r}
740 \\
5,590
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 100 \\
& 180
\end{aligned}
\]} & 580 & 520 & 60 & S & S & S \\
\hline Mechanical engineers.. & & & & 3,410 & 3,340 & 70 & 50 & 50 & S \\
\hline Other engineers... & \multirow[t]{2}{*}{\[
\begin{aligned}
& 13,590 \\
& 15,530
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 12,560 \\
& 14,560
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
1,030 \\
970
\end{array}
\]} & 9,680 & 8,900 & 780 & 140 & 140 & S \\
\hline Postsecondary teachers, engineering. & & & & 11,700 & 10,930 & 770 & 340 & 300 & S \\
\hline Non-S\&E occupations... & 141,520 & 109,210 & 32,300 & 121,180 & 93,390 & 27,800 & 3,770 & 2,370 & 1,400 \\
\hline Managers, administrators, etc.. & 83,820 & 69,420 & 14,400 & 72,190 & 59,740 & 12,450 & 2,180 & 1,540 & 640 \\
\hline Health and related occupations. & 13,450 & 9,580 & 3,870 & 11,230 & 7,980 & 3,260 & 300 & 150 & 150 \\
\hline Teachers, except S\&E postsecondary teachers.... & 18,920 & 10,560 & 8,360 & 16,310 & 9,170 & 7,140 & 790 & 320 & 470 \\
\hline Social services and related occupations... & 1,770 & 1,210 & 560 & 1,540 & 1,050 & 490 & 80 & 50 & S \\
\hline Technologists, etc........... & 5,340 & 4,690 & 650 & 4,070 & 3,560 & 510 & 50 & 50 & S \\
\hline Sales and marketing occupations.... & 4,870 & 4,120 & 740 & 4,070 & 3,460 & 610 & 60 & S & S \\
\hline Other non-S\&E occupations............................. & 13,360 & 9,630 & 3,730 & 11,780 & 8,440 & 3,340 & 310 & 220 & 100 \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table.
}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Occupation} & \multicolumn{3}{|l|}{Asian or Pacific Islander} & \multicolumn{3}{|c|}{Hispanic} & \multicolumn{3}{|c|}{Native American} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total. & 58,660 & 48,630 & 1,030 & 11,110 & 8,270 & 2,840 & 1,820 & 1,360 & 470 \\
\hline Scientists.. & 29,590 & 22,610 & 6,980 & 6,920 & 4,920 & 1,990 & 1,190 & 910 & 270 \\
\hline Computer and mathematical scientists.. & 7,320 & 6,230 & 1,090 & 1,030 & 880 & 150 & 110 & 110 & S \\
\hline Computer and information scientists.. & 3,500 & 3,070 & 430 & 320 & 290 & S & S & S & S \\
\hline Mathematical scientists.................... & 1,230 & 1,060 & 180 & 160 & 110 & S & S & S & S \\
\hline Postsecondary teachers, computer and mathematical sciences. \(\qquad\) & 2,580 & 2,110 & 480 & 560 & 480 & 70 & 60 & 60 & S \\
\hline Life and related scientists. & 9,990 & 6,770 & 3,210 & 1,780 & 1,220 & 550 & 230 & 180 & 60 \\
\hline Agricultural scientists... & 710 & 590 & 120 & 240 & 180 & 60 & S & S & S \\
\hline Biological scientists. & 7,570 & 4,910 & 2,660 & 1,020 & 690 & 330 & 190 & 130 & 60 \\
\hline Forestry and conservation scientists.. & S & S & S & S & S & S & S & S & S \\
\hline Postsecondary teachers, life and related sciences... & 1,700 & 1,270 & 430 & 510 & 350 & 160 & S & S & S \\
\hline Physical and related scientists.. & 8,310 & 6,850 & 1,460 & 1,490 & 1,250 & 240 & 160 & 150 & S \\
\hline Chemists, except biochemists.. & 3,760 & 2,980 & 780 & 510 & 460 & S & S & S & S \\
\hline Earth scientists......... & 680 & 630 & 50 & 150 & 130 & S & S & S & S \\
\hline Physicists and astronomers.... & 1,800 & 1,550 & 260 & 180 & 170 & S & S & S & S \\
\hline Other physical scientists... & 240 & 170 & 70 & S & S & S & S & S & S \\
\hline Postsecondary teachers, physical and related sciences. \(\qquad\) & 1,830 & 1,520 & 310 & 610 & 470 & 140 & 80 & 80 & S \\
\hline Social and related scientists. & 3,970 & 2,750 & 1,220 & 2,620 & 1,560 & 1,060 & 690 & 470 & 210 \\
\hline Economists.. & 800 & 550 & 260 & 150 & 120 & S & 60 & 60 & S \\
\hline Political scientists. & 100 & 80 & S & 100 & 100 & S & S & S & S \\
\hline Psychologists..... & 710 & 280 & 420 & 1,020 & 570 & 450 & 300 & 150 & 150 \\
\hline Sociologists and anthropologists....... & S & S & S & S & S & S & S & S & S \\
\hline S\&T historians and other social scientists..... & 180 & 110 & 70 & 60 & S & 60 & S & S & S \\
\hline Postsecondary teachers, social and related sciences. \(\qquad\) & 2,150 & 1,720 & 430 & 1,250 & 760 & 490 & 320 & 260 & 50 \\
\hline Engineers........................................................ & 15,810 & 14,950 & 860 & 1,390 & 1,270 & 120 & 150 & 140 & S \\
\hline Aerospace and related engineers......................... & 880 & 850 & S & 60 & 60 & S & S & S & S \\
\hline Chemical engineers................ & 1,640 & 1,510 & 130 & 150 & 140 & S & S & S & S \\
\hline Civil and architectural engineers...... & 1,110 & 1,080 & S & 100 & 100 & S & S & S & S \\
\hline Electric and related engineers... & 3,330 & 3,130 & 200 & 210 & 180 & S & S & S & S \\
\hline Industrial engineers.......... & 230 & 210 & S & S & S & S & S & S & S \\
\hline Mechanical engineers... & 2,160 & 2,070 & 100 & 110 & 110 & S & S & S & S \\
\hline Other engineers.................. & 3,500 & 3,250 & 250 & 260 & 260 & S & S & S & S \\
\hline Postsecondary teachers, engineering..... & 2,950 & 2,860 & 90 & 470 & 410 & 50 & 70 & 60 & S \\
\hline Non-S\&E occupations......................................... & 13,270 & 11,070 & 2,200 & 2,810 & 2,080 & 730 & 490 & 310 & 180 \\
\hline Managers, administrators, etc ... & 7,590 & 6,650 & 950 & 1,640 & 1,340 & 300 & 220 & 150 & 60 \\
\hline Health and related occupations... & 1,660 & 1,290 & 370 & 220 & 140 & 80 & S & S & S \\
\hline Teachers, except S\&E postsecondary teachers.... & 1,320 & 870 & 450 & 390 & 150 & 230 & 110 & S & 60 \\
\hline Social services and related occupations................. & 90 & 80 & S & S & S & S & S & S & S \\
\hline Technologists, etc.............................................. & 1,120 & 1,010 & 110 & 80 & 60 & S & S & S & S \\
\hline Sales and marketing occupations......................... & 570 & 510 & 60 & 160 & 110 & 50 & S & S & S \\
\hline Other non-S\&E occupations................................ & 910 & 670 & 240 & 280 & 250 & S & 80 & 70 & S \\
\hline
\end{tabular}

KEY: \(\quad S=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)

NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Characteristics} & & & & & & & Page 1 of 1 \\
\hline & Total & Sciences & Computer and mathematical sciences & Life and related sciences & Physical and
related
sciences & \begin{tabular}{l}
Social and \\
related \\
sciences
\end{tabular} & \\
\hline Total................... & 484,780 & 406,130 & 29,250 & 132,190 & 101,300 & 143,390 & 78,650 \\
\hline \multicolumn{8}{|l|}{\multirow[t]{2}{*}{Sex: [Percentage distribution]}} \\
\hline & & & & & & & \\
\hline Male.. & 78.3 & 75.1 & 87.4 & 72.4 & 89.1 & 65.1 & 94.9 \\
\hline Female............................ & 21.7 & 24.9 & 12.6 & 27.6 & 10.9 & 34.9 & 5.1 \\
\hline \multicolumn{8}{|l|}{Race/Ethnicity:} \\
\hline White... & 83.0 & 85.8 & 78.5 & 85.9 & 83.3 & 88.8 & 69.1 \\
\hline Black...... & 2.2 & 2.3 & 1.5 & 2.0 & 1.2 & 3.5 & 1.4 \\
\hline Asian or Pacific Islander........ & 12.1 & 9.2 & 16.9 & 9.7 & 13.2 & 4.3 & 27.1 \\
\hline Hispanic....................... & 2.3 & 2.3 & 3.0 & 2.0 & 2.1 & 2.7 & 2.2 \\
\hline Native American................................. & 0.4 & 0.4 & S & 0.3 & 0.3 & 0.6 & 0.2 \\
\hline \multicolumn{8}{|l|}{Age:} \\
\hline Under 30. & 1.7 & 1.6 & 2.6 & 1.5 & 2.2 & 0.9 & 2.6 \\
\hline 30 to 34. & 10.6 & 9.6 & 11.8 & 10.1 & 12.4 & 6.9 & 15.6 \\
\hline 35 to 39. & 15.9 & 15.3 & 16.8 & 16.8 & 15.8 & 13.1 & 19.1 \\
\hline 40 to 44. & 17.5 & 17.8 & 15.6 & 20.0 & 14.3 & 18.8 & 15.4 \\
\hline 45 to 49. & 18.4 & 19.3 & 18.8 & 18.7 & 15.8 & 22.3 & 13.9 \\
\hline 50 to 54. & 16.9 & 17.1 & 18.5 & 15.5 & 17.7 & 18.0 & 15.5 \\
\hline 55 to 59. & 9.8 & 9.7 & 10.2 & 9.0 & 11.1 & 9.4 & 10.5 \\
\hline 60 to \(64 .\). & 5.4 & 5.6 & 3.8 & 5.1 & 6.3 & 6.0 & 4.5 \\
\hline 65 to 75.. & 3.8 & 4.0 & 1.8 & 3.4 & 4.5 & 4.6 & 2.8 \\
\hline \multicolumn{8}{|l|}{Citizenship status:} \\
\hline U.S. total..... & 91.6 & 93.2 & 84.9 & 93.5 & 91.7 & 95.6 & 83.3 \\
\hline U.S. native.... & 80.7 & 84.5 & 73.1 & 84.9 & 80.4 & 89.5 & 61.0 \\
\hline U.S. naturalized.............................. & 10.8 & 8.6 & 11.7 & 8.6 & 11.3 & 6.1 & 22.4 \\
\hline Non-U.S. total................................ & 8.4 & 6.8 & 15.1 & 6.5 & 8.3 & 4.4 & 16.7 \\
\hline Non-U.S., permanent resident............... & 7.0 & 5.7 & 12.3 & 5.3 & 7.0 & 3.7 & 14.0 \\
\hline Non-U.S., temporary resident............... & 1.4 & 1.2 & 2.8 & 1.2 & 1.4 & 0.6 & 2.6 \\
\hline Non-U.S., unspecified......................... & S & S & S & S & S & S & 0.1 \\
\hline \multicolumn{8}{|l|}{Year of doctorate:} \\
\hline 1993-94 graduates............................... & 8.6 & 8.3 & 9.9 & 9.2 & 7.2 & 7.9 & 10.2 \\
\hline 1990-92 graduates.............................. & 12.1 & 11.6 & 13.8 & 12.3 & 10.5 & 11.1 & 14.7 \\
\hline 1985-89 graduates............................... & 17.6 & 16.9 & 16.8 & 17.7 & 15.5 & 17.3 & 21.3 \\
\hline 1980-84 graduates............................... & 15.6 & 16.3 & 12.9 & 17.2 & 13.3 & 18.4 & 11.6 \\
\hline 1970-79 graduates............................ & 30.0 & 30.7 & 30.4 & 29.1 & 30.6 & 32.2 & 26.4 \\
\hline 1960-69 graduates.............................. & 13.3 & 13.3 & 14.9 & 11.9 & 18.4 & 10.6 & 13.6 \\
\hline Pre-1960 graduates............................. & 2.8 & 2.9 & 1.2 & 2.5 & 4.6 & 2.4 & 2.2 \\
\hline \multicolumn{8}{|l|}{Place of birth:} \\
\hline U.S.............................................. & 79.9 & 83.8 & 72.4 & 84.2 & 79.6 & 88.7 & 60.0 \\
\hline Europe.............................................. & 3.5 & 3.4 & 4.9 & 2.7 & 4.0 & 3.4 & 4.0 \\
\hline Asia............................................... & 13.0 & 9.6 & 18.6 & 9.8 & 13.5 & 4.7 & 31.0 \\
\hline North America... & 0.9 & 0.9 & 0.9 & 0.9 & 0.9 & 0.9 & 0.7 \\
\hline Central America................................. & 0.3 & 0.3 & 0.5 & 0.3 & 0.3 & 0.2 & 0.4 \\
\hline Carribean...................................... & 0.4 & 0.4 & 0.3 & 0.3 & 0.3 & 0.5 & 0.4 \\
\hline South America.................................... & 0.7 & 0.6 & 1.0 & 0.6 & 0.6 & 0.6 & 1.0 \\
\hline Africa............................................. & 1.1 & 0.8 & 1.0 & 1.0 & 0.6 & 0.8 & 2.3 \\
\hline Oceania............................................ & 0.1 & 0.1 & 0.4 & 0.1 & S & 0.1 & 0.2 \\
\hline Unknown... & 0.1 & 0.1 & S & 0.1 & 0.1 & 0.1 & 0.2 \\
\hline
\end{tabular}

KEY: \(\quad\) S = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients


KEY: \(\quad \mathrm{S}=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Characteristic} & \multirow[b]{3}{*}{Total} & & & & \multicolumn{3}{|r|}{\multirow[t]{2}{*}{Non-U.S. citizen}} \\
\hline & & \multicolumn{3}{|c|}{U.S. citizen} & & & \\
\hline & & Total & Native & Naturalized & Total & Permanent resident & Temporary resident \\
\hline Total................................................. & 484,780 & 443,900 & 391,310 & 52,590 & 40,880 & 33,990 & 6,790 \\
\hline & \multicolumn{7}{|c|}{[Percentage distribution]} \\
\hline Sex: & & & & & & & \\
\hline Male.. & 78.3 & 78.0 & 77.2 & 83.6 & 81.8 & 81.7 & 82.1 \\
\hline Female............................................. & 21.7 & 22.0 & 22.8 & 16.4 & 18.2 & 18.3 & 17.9 \\
\hline \multicolumn{8}{|l|}{Race/Ethnicity:} \\
\hline White......... & 83.0 & 88.0 & 94.7 & 37.8 & 29.4 & 29.4 & 28.5 \\
\hline Black......... & 2.2 & 2.0 & 1.9 & 2.7 & 4.1 & 4.0 & 4.7 \\
\hline Asian or Pacific Islander.. & 12.1 & 7.5 & 1.3 & 53.7 & 61.9 & 62.2 & 61.1 \\
\hline Hispanic..... & 2.3 & 2.1 & 1.6 & 5.6 & 4.6 & 4.3 & 5.7 \\
\hline Native American................................. & 0.4 & 0.4 & 0.4 & 0.1 & S & S & S \\
\hline \multicolumn{8}{|l|}{Age:} \\
\hline Under 30.... & 1.7 & 1.5 & 1.6 & 0.8 & 4.5 & 2.9 & 12.5 \\
\hline 30 to 34... & 10.6 & 8.7 & 9.1 & 5.8 & 31.0 & 27.9 & 46.7 \\
\hline 35 to 39.. & 15.9 & 14.5 & 14.7 & 13.3 & 30.9 & 32.5 & 23.2 \\
\hline 40 to 44.. & 17.5 & 17.6 & 17.6 & 17.9 & 15.7 & 16.6 & 10.6 \\
\hline 45 to 49. & 18.4 & 19.4 & 19.3 & 20.6 & 7.3 & 8.2 & 2.5 \\
\hline 50 to 54.. & 16.9 & 17.9 & 18.0 & 17.2 & 5.9 & 6.6 & 2.7 \\
\hline 55 to 59. & 9.8 & 10.5 & 10.2 & 12.8 & 2.4 & 2.7 & 1.1 \\
\hline 60 to 64.. & 5.4 & 5.8 & 5.7 & 6.5 & 1.2 & 1.5 & S \\
\hline 65 to 75.......................................... & 3.8 & 4.0 & 3.9 & 5.2 & 1.0 & 1.0 & 0.8 \\
\hline \multicolumn{8}{|l|}{Geographic division:} \\
\hline New England..................................... & 7.9 & 7.8 & 7.8 & 8.1 & 8.5 & 8.1 & 10.5 \\
\hline Middle Atlantic...... & 16.8 & 16.6 & 16.3 & 18.7 & 19.2 & 20.2 & 14.2 \\
\hline East North Central............ & 13.9 & 13.6 & 13.7 & 12.6 & 16.7 & 17.1 & 14.8 \\
\hline West North Central........................ & 6.1 & 6.1 & 6.4 & 3.9 & 5.6 & 5.5 & 6.4 \\
\hline South Atlantic......... & 18.9 & 19.2 & 19.4 & 17.6 & 15.5 & 14.7 & 19.8 \\
\hline East South Central.. & 4.1 & 4.2 & 4.4 & 3.2 & 3.0 & 3.0 & 3.2 \\
\hline West South Central.. & 8.0 & 8.0 & 8.0 & 7.6 & 8.3 & 8.6 & 7.1 \\
\hline Mountain........ & 6.5 & 6.7 & 7.0 & 3.9 & 4.8 & 4.6 & 5.9 \\
\hline Pacific.............. & 17.5 & 17.5 & 16.7 & 23.7 & 17.5 & 17.9 & 15.3 \\
\hline Other U.S......................................... & 0.3 & 0.2 & 0.1 & 0.8 & 0.9 & 0.4 & 3.0 \\
\hline Place of birth: & & & & & & & \\
\hline U.S................................................. & 79.9 & 87.2 & 98.8 & 0.5 & 1.2 & 1.1 & 1.6 \\
\hline Europe............................................. & 3.5 & 2.6 & 0.3 & 19.5 & 13.5 & 13.3 & 15.0 \\
\hline Asia........ & 13.0 & 7.9 & 0.4 & 63.9 & 68.4 & 69.2 & 64.7 \\
\hline North America.................... & 0.9 & 0.5 & 0.1 & 3.9 & 4.4 & 4.6 & 3.9 \\
\hline Central America..... & 0.3 & 0.2 & 0.1 & 1.3 & 1.1 & 1.0 & 1.5 \\
\hline Carribean....................................... & 0.4 & 0.3 & S & 2.6 & 1.0 & 1.1 & S \\
\hline South America................................... & 0.7 & 0.4 & 0.1 & 2.9 & 3.7 & 3.6 & 4.6 \\
\hline Africa.............................................. & 1.1 & 0.7 & 0.1 & 5.2 & 5.5 & 5.1 & 7.0 \\
\hline Oceania........................................... & 0.1 & S & S & 0.4 & 1.1 & 1.1 & 1.2 \\
\hline Unknown.......................................... & 0.1 & 0.1 & 0.1 & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad S\) = Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

See explanatory information and SOURCE at end of table.

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline Characteristics & Total & Universities and 4-year colleges & Other educational institutions & Private-forprofit & \[
\begin{array}{|c|}
\hline \text { Self- } \\
\text { employed }
\end{array}
\] & Private not-for-profit & Federal government & State and local government & Other sector \\
\hline & \multicolumn{9}{|c|}{[Percentage distribution]} \\
\hline \multicolumn{10}{|l|}{} \\
\hline U.S...... & 79.9 & 80.5 & 89.1 & 74.1 & 89.1 & 84.1 & 87.9 & 82.9 & 56.7 \\
\hline Europe................ & 3.5 & 4.1 & 2.7 & 3.1 & 3.6 & 3.6 & 2.1 & 2.9 & 6.7 \\
\hline Asia.. & 13.0 & 11.6 & 5.5 & 19.3 & 4.8 & 9.1 & 8.0 & 10.4 & 26.2 \\
\hline North America. & 0.9 & 1.0 & S & 0.9 & 1.0 & 0.8 & 0.4 & 1.1 & S \\
\hline Central America....... & 0.3 & 0.4 & S & 0.2 & 0.2 & S & S & S & S \\
\hline Carribean.... & 0.4 & 0.3 & 0.5 & 0.4 & 0.2 & 0.3 & 0.3 & S & S \\
\hline South America......... & 0.7 & 0.7 & 0.9 & 0.7 & 0.3 & 0.8 & 0.4 & S & 3.5 \\
\hline Africa.. & 1.1 & 1.2 & 0.6 & 1.1 & 0.6 & 0.8 & 0.5 & 1.7 & 2.5 \\
\hline Oceania.................... & 0.1 & 0.1 & S & 0.1 & S & 0.2 & S & S & S \\
\hline Unknown... & 0.1 & 0.1 & S & 0.1 & S & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad S=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 32. Employed doctoral scientists and engineers, by demographic characteristics and primary work activity: 1995


KEY: \(\quad S=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Characteristics} & & & & & & & \multicolumn{3}{|r|}{Page 1 of 2} \\
\hline & \multicolumn{3}{|c|}{Total} & \multicolumn{3}{|c|}{White} & \multicolumn{3}{|c|}{Black} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total........................................................... & 484,780 & 379,480 & 105,300 & 402,600 & 314,190 & 88,410 & 10,500 & 6,980 & 3,530 \\
\hline & \multicolumn{9}{|c|}{[Percentage distribution]} \\
\hline \multicolumn{10}{|l|}{} \\
\hline Under 30... & 1.7 & 1.5 & 2.6 & 1.5 & 1.3 & 2.4 & 1.3 & 1.1 & 1.8 \\
\hline 30 to 34... & 10.6 & 9.7 & 14.0 & 9.2 & 8.3 & 12.5 & 9.0 & 8.3 & 10.5 \\
\hline 35 to 39. & 15.9 & 14.9 & 19.4 & 14.7 & 13.6 & 18.7 & 16.8 & 17.0 & 16.4 \\
\hline 40 to 44... & 17.5 & 16.7 & 20.2 & 17.6 & 16.7 & 20.7 & 18.9 & 17.1 & 22.4 \\
\hline 45 to 49. & 18.4 & 18.0 & 19.9 & 19.0 & 18.6 & 20.6 & 20.8 & 19.2 & 24.0 \\
\hline 50 to \(54 . .\). . & 16.9 & 18.1 & 12.6 & 17.8 & 19.1 & 13.3 & 15.6 & 17.2 & 12.5 \\
\hline 55 to 59. & 9.8 & 10.8 & 6.3 & 10.2 & 11.3 & 6.5 & 6.9 & 7.2 & 6.5 \\
\hline 60 to 64................................... & 5.4 & 6.1 & 3.0 & 5.7 & 6.5 & 3.0 & 6.5 & 7.5 & 4.5 \\
\hline 65 to 75....................................... & 3.8 & 4.3 & 2.0 & 4.1 & 4.6 & 2.2 & 4.1 & 5.4 & 1.5 \\
\hline \multicolumn{10}{|l|}{Citizenship status:} \\
\hline U.S. total............ & 91.6 & 91.2 & 92.9 & 97.0 & 96.9 & 97.5 & 84.2 & 79.1 & 94.2 \\
\hline U.S. native..... & 80.7 & 79.6 & 84.8 & 92.1 & 91.7 & 93.4 & 70.6 & 62.2 & 87.3 \\
\hline U.S. naturalized... & 10.8 & 11.6 & 8.2 & 4.9 & 5.2 & 4.1 & 13.6 & 16.9 & 6.9 \\
\hline Non-U.S. total.. & 8.4 & 8.8 & 7.1 & 3.0 & 3.1 & 2.5 & 15.8 & 20.9 & 5.8 \\
\hline Non-U.S., permanent resident.......... & 7.0 & 7.3 & 5.9 & 2.5 & 2.6 & 2.1 & 12.8 & 17.1 & 4.4 \\
\hline Non-U.S., temporary resident............... & 1.4 & 1.5 & 1.2 & 0.5 & 0.5 & 0.4 & 3.0 & 3.9 & S \\
\hline Non-U.S., unspecified......................... & S & S & S & S & S & S & S & S & S \\
\hline \multicolumn{10}{|l|}{Geographic division:} \\
\hline New England.......... & 7.9 & 7.6 & 9.0 & 8.1 & 7.8 & 9.1 & 5.2 & 5.7 & 4.4 \\
\hline Middle Atlantic...... & 16.8 & 16.4 & 18.3 & 16.6 & 16.1 & 18.5 & 15.3 & 15.4 & 15.1 \\
\hline East North Central... & 13.9 & 13.9 & 13.6 & 13.9 & 13.9 & 13.7 & 12.6 & 14.5 & 9.0 \\
\hline West North Central... & 6.1 & 6.3 & 5.5 & 6.4 & 6.6 & 5.7 & 4.3 & 5.4 & 2.0 \\
\hline South Atlantic.......... & 18.9 & 18.7 & 19.4 & 19.1 & 19.1 & 19.2 & 32.3 & 29.0 & 39.0 \\
\hline East South Central... & 4.1 & 4.3 & 3.6 & 4.2 & 4.4 & 3.6 & 6.4 & 7.0 & 5.3 \\
\hline West South Central....... & 8.0 & 8.4 & 6.7 & 7.9 & 8.2 & 6.6 & 9.1 & 8.9 & 9.6 \\
\hline Mountain................... & 6.5 & 6.9 & 5.1 & 6.9 & 7.3 & 5.3 & 2.4 & 2.5 & 2.2 \\
\hline Paciic..... & 17.5 & 17.2 & 18.6 & 16.8 & 16.4 & 18.2 & 12.1 & 11.5 & 13.3 \\
\hline Other U.S..................................... & 0.3 & 0.3 & 0.2 & 0.2 & 0.2 & 0.1 & s & S & S \\
\hline \multicolumn{10}{|l|}{Place of birth:} \\
\hline U.S............ & 79.9 & 78.9 & 83.8 & 91.3 & 91.0 & 92.4 & 70.6 & 62.0 & 87.6 \\
\hline Europe.... & 3.5 & 3.6 & 3.4 & 4.1 & 4.1 & 3.9 & S & S & S \\
\hline Asia... & 13.0 & 14.0 & 9.6 & 2.4 & 2.6 & 1.6 & 0.5 & S & S \\
\hline North America.... & 0.9 & 0.9 & 0.9 & 1.0 & 1.0 & 1.1 & S & S & S \\
\hline Central America........... & 0.3 & 0.3 & 0.2 & 0.1 & 0.1 & S & S & S & S \\
\hline Carribean........... & 0.4 & 0.4 & 0.4 & S & S & S & 6.4 & 7.2 & 4.8 \\
\hline South America......... & 0.7 & 0.6 & 0.9 & 0.2 & 0.2 & 0.3 & 0.9 & 1.0 & S \\
\hline Africa.... & 1.1 & 1.2 & 0.5 & 0.7 & 0.8 & 0.3 & 20.8 & 28.4 & 5.8 \\
\hline Oceania.... & 0.1 & 0.1 & 0.2 & 0.2 & 0.1 & 0.2 & S & S & S \\
\hline Unknown.................. & 0.1 & 0.1 & 0.1 & 0.1 & 0.1 & 0.2 & S & S & S \\
\hline
\end{tabular}

\footnotetext{
See explanalory information and SOURCE at end of table.
}

Table 33. Employed doctoral scientists and engineers, by demographic characteristics, race/ethnicity, and sex: 1995

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Characteristics} & \multicolumn{3}{|l|}{Asian or Pacific Islander} & \multicolumn{3}{|c|}{Hispanic} & \multicolumn{3}{|c|}{Native Ámerican} \\
\hline & Total & Maiale & Female & Totai & Maie & Female & Total & Mále & Femaie \\
\hline Total. & 58,660 & 48,630 & 10,030 & 11,110 & 8,270 & 2,840 & 1,820 & 1,360 & 470 \\
\hline & \multicolumn{9}{|c|}{[Percentage distribution]} \\
\hline \multicolumn{10}{|l|}{Age: \(\quad\) - \({ }^{\text {a }}\)} \\
\hline Under 30... & 3.1 & 2.7 & 4.9 & 2.6 & 2.1 & 4.1 & S & S & S \\
\hline 30 to 34. & 19.8 & 18.0 & 28.0 & 14.8 & 14.8 & 14.8 & S & S & S \\
\hline 35 to 39. & 22.8 & 22.4 & 24.7 & 21.6 & 19.3 & 28.1 & 11.8 & 13.0 & S \\
\hline 40 to 44. & 16.2 & 16.3 & 15.8 & 18.1 & 17.3 & 20.6 & 9.6 & 8.6 & 12.4 \\
\hline 45 to 49. & 14.1 & 14.5 & 12.2 & 14.9 & 15.0 & 14.8 & 23.4 & 16.4 & 43.8 \\
\hline 50 to 54. & 10.5 & 11.2 & 6.8 & 16.2 & 17.9 & 11.3 & 27.9 & 31.3 & 18.1 \\
\hline 55 to 59. & 8.2 & 8.8 & 5.2 & 6.8 & 8.4 & 2.4 & 11.2 & 12.9 & S \\
\hline 60 to \(64 .\). & 3.4 & 3.7 & 1.9 & 2.8 & 2.7 & 2.9 & 8.6 & 10.0 & S \\
\hline 65 to 75... & 2.0 & 2.3 & 0.6 & 2.2 & 2.5 & S & 3.4 & 4.2 & S \\
\hline \multicolumn{10}{|l|}{Citizenship status:} \\
\hline U.S. total............ & 56.9 & 57.4 & 54.3 & 83.2 & 82.5 & 85.5 & 99.5 & 99.3 & 100.0 \\
\hline U.S. native... & 8.7 & 7.6 & 14.0 & 56.7 & 54.9 & 62.0 & 96.0 & 95.3 & 97.8 \\
\hline U.S. naturalized. & 48.2 & 49.8 & 40.3 & 26.5 & 27.5 & 23.5 & 3.5 & 3.9 & S \\
\hline Non-U.S. total... & 43.1 & 42.6 & 45.7 & 16.8 & 17.5 & 14.5 & S & S & S \\
\hline Non-U.S., permanent resident.......... & 36.0 & 35.4 & 39.0 & 13.3 & 14.4 & 9.8 & S & S & S \\
\hline Non-U.S., temporary resident............... & 7.1 & 7.1 & 6.7 & 3.5 & 3.1 & 4.7 & S & S & S \\
\hline Non-U.S., unspecified......................... & S & S & S & S & S & S & S & S & S \\
\hline \multicolumn{10}{|l|}{Geographic division:} \\
\hline New England.................................. & 7.6 & 6.9 & 10.9 & 6.6 & 7.2 & 5.2 & 3.5 & 4.2 & S \\
\hline Middle Atlantic... & 19.1 & 19.2 & 18.5 & 14.4 & 13.0 & 18.6 & 10.5 & 10.2 & 11.2 \\
\hline East North Central.. & 14.9 & 14.6 & 16.1 & 10.1 & 10.2 & 9.8 & 12.5 & 13.6 & S \\
\hline West North Central. & 4.8 & 4.7 & 5.1 & 4.1 & 4.1 & 4.2 & 6.5 & 7.8 & S \\
\hline South Allantic.... & 15.0 & 15.3 & 13.8 & 19.3 & 18.8 & 20.8 & 12.4 & 12.7 & 11.5 \\
\hline East South Central. & 2.9 & 2.9 & 2.7 & 2.8 & 3.4 & S & 11.3 & 8.4 & 19.7 \\
\hline West South Central. & 8.1 & 8.5 & 6.1 & 9.6 & 10.0 & 8.5 & 18.6 & 23.7 & S \\
\hline Mountain... & 4.3 & 4.4 & 3.9 & 8.4 & 8.7 & 7.4 & 11.4 & 10.8 & 13.0 \\
\hline Pacific... & 22.6 & 22.6 & 22.3 & 23.8 & 23.6 & 24.3 & 13.4 & 8.5 & 27.4 \\
\hline Other U.S.......................................... & 0.7 & 0.8 & 0.6 & 0.9 & 1.1 & S & S & S & S \\
\hline Place of birth: & & & & & & & & & \\
\hline U.S.............. & 7.9 & 6.9 & 12.5 & 55.4 & 53.3 & 61.3 & 96.0 & 95.3 & 97.8 \\
\hline Europe.......................................... & 0.4 & 0.4 & S & 3.3 & 3.2 & 3.6 & S & S & S \\
\hline Asia..... & 90.9 & 91.9 & 86.1 & 1.8 & 2.0 & S & 4.0 & 4.7 & S \\
\hline North America... & S & S & S & S & S & S & S & S & S \\
\hline Central America. & S & S & S & 10.0 & 10.9 & 7.1 & S & S & S \\
\hline Carribean..... & 0.1 & 0.1 & S & 8.7 & 9.3 & 6.9 & S & S & S \\
\hline South America.. & 0.2 & 0.2 & S & 20.2 & 20.3 & 20.0 & S & S & S \\
\hline Africa.. & 0.4 & 0.3 & 0.7 & 0.6 & 0.8 & S & S & S & S \\
\hline Oceania...... & S & S & S & S & S & S & S & S & S \\
\hline Unknown....................................... & S & S & S & S & S & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad S=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 34. Employed doctoral scientisis and engineers, by employment-related characteristics, race/ethnicity, and sex: 1995

Page 1 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Characteristics} & \multicolumn{3}{|c|}{Total} & \multicolumn{3}{|c|}{White} & \multicolumn{3}{|c|}{Black} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total. & 484,780 & 379,480 & 105,300 & 402,600 & 314,190 & 88,410 & 10,500 & 6,980 & 3,530 \\
\hline & \multicolumn{9}{|c|}{[Percentage distribution]} \\
\hline \multicolumn{10}{|l|}{Sector of employment:} \\
\hline Universities and 4-year colleges................. & 45.9 & 44.9 & 49.4 & 46.4 & 45.6 & 49.1 & 54.6 & 54.0 & 55.7 \\
\hline Other educational institutions... & 2.6 & 2.0 & 4.6 & 2.7 & 2.2 & 4.6 & 5.0 & 4.0 & 7.0 \\
\hline Private-for-profit........................... & 30.3 & 33.1 & 20.1 & 28.5 & 31.1 & 18.9 & 20.1 & 23.9 & 12.5 \\
\hline Self-employed....................................... & 5.9 & 4.9 & 9.4 & 6.6 & 5.4 & 10.5 & 3.9 & 3.2 & 5.2 \\
\hline Private not-for-profit................................ & 4.9 & 4.5 & 6.5 & 5.1 & 4.6 & 6.7 & 4.3 & 3.9 & 5.2 \\
\hline Federal government............................... & 7.1 & 7.5 & 6.0 & 7.5 & 7.9 & 6.0 & 7.1 & 6.2 & 8.9 \\
\hline State and local government...................... & 2.7 & 2.5 & 3.5 & 2.8 & 2.6 & 3.6 & 4.6 & 4.2 & 5.4 \\
\hline Other sector.......................................... & 0.6 & 0.6 & 0.6 & 0.5 & 0.5 & 0.4 & S & S & S \\
\hline \multicolumn{10}{|l|}{Primary work activity:} \\
\hline R\&D... & 41.0 & 42.8 & 34.7 & 39.1 & 41.0 & 32.5 & 28.6 & 32.4 & 21.2 \\
\hline Applied research... & 20.2 & 21.0 & 17.1 & 19.6 & 20.6 & 16.1 & 15.8 & 18.6 & 10.2 \\
\hline Basic research....... & 13.7 & 13.5 & 14.2 & 13.3 & 13.2 & 13.5 & 8.0 & 8.4 & 7.1 \\
\hline Development......... & 4.9 & 5.5 & 2.7 & 4.3 & 4.9 & 2.2 & 3.5 & 3.5 & 3.5 \\
\hline Design................................................ & 2.3 & 2.8 & 0.8 & 2.0 & 2.4 & 0.7 & 1.3 & 1.8 & S \\
\hline Teaching... & 22.1 & 21.4 & 24.6 & 22.8 & 22.2 & 25.1 & 30.1 & 30.0 & 30.3 \\
\hline Management, sales, and administration...... & 16.4 & 17.3 & 13.0 & 16.9 & 17.9 & 13.4 & 21.5 & 22.5 & 19.6 \\
\hline Computer applications..................... & 4.4 & 5.0 & 1.9 & 3.7 & 4.4 & 1.6 & 2.7 & 3.2 & 1.7 \\
\hline Professional services... & 12.3 & 9.8 & 21.5 & 13.4 & 10.7 & 23.0 & 13.8 & 8.8 & 23.8 \\
\hline Other activities.................................. & 3.8 & 3.7 & 4.3 & 4.0 & 3.9 & 4.5 & 3.3 & 3.2 & 3.4 \\
\hline Federal support: & & & & & & & & & \\
\hline Receiving support.................................. & 28.3 & 29.0 & 25.8 & 28.2 & 28.9 & 25.4 & 23.7 & 24.7 & 21.6 \\
\hline Not receiving support.............................. & 71.7 & 71.0 & 74.2 & 71.8 & 71.1 & 74.6 & 76.3 & 75.3 & 78.4 \\
\hline Relationship between degree/job & & & & & & & & & \\
\hline Closely related...................................... & 68.2 & 67.0 & 72.5 & 68.5 & 67.3 & 72.9 & 71.5 & 69.3 & 75.7 \\
\hline Somewhat related................................... & 24.1 & 24.9 & 20.9 & 23.5 & 24.3 & 20.6 & 21.6 & 23.0 & 18.9 \\
\hline Not related........................................... & 7.7 & 8.1 & 6.6 & 7.9 & 8.3 & 6.6 & 6.9 & 7.7 & 5.3 \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Table 34. Employed doctoral scientists and engineers, by employment-related characteristics, race/ethnicity, and sex: 1995

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Characteristics} & \multicolumn{3}{|c|}{Asian} & \multicolumn{3}{|c|}{Hispanic} & \multicolumn{3}{|c|}{Native American} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total..... & 58,660 & 48,630 & 10,030 & 11,110 & 8,270 & 2,840 & 1,820 & 1,360 & 470 \\
\hline & \multicolumn{9}{|c|}{[Percentage distribution]} \\
\hline \multicolumn{10}{|l|}{Sector of employment:} \\
\hline Universities and 4 -year colleges........ & 39.7 & 38.2 & 46.7 & 52.6 & 50.1 & 59.9 & 49.4 & 49.2 & 50.0 \\
\hline Other educational institutions....................... & 1.0 & 0.7 & 2.1 & 3.1 & 1.6 & 7.5 & 4.4 & 4.2 & S \\
\hline Private-for-profit.................................. & 45.9 & 48.3 & 34.7 & 24.8 & 29.0 & 12.6 & 19.2 & 18.5 & 21.3 \\
\hline Self-employed......... & 2.0 & 2.0 & 2.3 & 3.6 & 3.6 & 3.5 & 9.1 & 9.7 & S \\
\hline Private not-for-profit.......................... & 3.7 & 3.5 & 4.3 & 5.9 & 4.5 & 9.8 & 3.2 & S & S \\
\hline Federal government................................ & 4.7 & 4.5 & 5.4 & 7.0 & 7.9 & 4.4 & 7.5 & 7.2 & S \\
\hline State and local government....................... & 2.1 & 1.9 & 2.6 & 1.7 & 1.8 & S & 5.1 & 5.3 & S \\
\hline Other sector....................................... & 1.0 & 0.8 & 1.8 & 1.3 & 1.4 & S & S & S & S \\
\hline \multicolumn{10}{|l|}{Primary work activity:} \\
\hline R\&D..................... & 56.6 & 56.2 & 58.5 & 41.5 & 42.7 & 37.9 & 27.1 & 28.1 & 24.4 \\
\hline Applied research.. & 24.6 & 24.0 & 27.3 & 21.6 & 22.3 & 19.6 & 20.6 & 20.9 & 19.9 \\
\hline Basic research............................ & 17.5 & 16.3 & 23.3 & 14.3 & 14.9 & 12.8 & 4.9 & 5.7 & S \\
\hline Development.............................. & 9.3 & 9.9 & 6.5 & 4.1 & 4.2 & 3.9 & S & S & S \\
\hline Design....................... & 5.1 & 5.9 & 1.4 & 1.4 & 1.3 & S & S & S & S \\
\hline Teaching..... & 14.4 & 14.1 & 16.1 & 25.8 & 23.8 & 31.5 & 32.0 & 35.2 & 22.6 \\
\hline Management, sales, and administration....... & 12.6 & 13.4 & 8.5 & 13.7 & 14.8 & 10.3 & 12.1 & 13.1 & S \\
\hline Computer applications....................... & 8.8 & 9.4 & 5.9 & 4.7 & 6.2 & S & 3.4 & 4.6 & S \\
\hline Professional senvices/Other...................... & 4.6 & 3.9 & 8.1 & 11.3 & 9.4 & 17.0 & 19.9 & 12.3 & 42.0 \\
\hline Other activities.............................................. & 3.0 & 3.0 & 3.0 & 3.0 & 3.1 & 2.8 & 5.5 & 6.8 & S \\
\hline Federal support: & & & & & & & & & \\
\hline Receiving support.................................. & 29.3 & 29.3 & 29.6 & 31.5 & 32.2 & 29.5 & 20.5 & 19.9 & 22.1 \\
\hline Not receiving support............................ & 70.7 & 70.7 & 70.4 & 68.5 & 67.8 & 70.5 & 79.5 & 80.1 & 77.9 \\
\hline Relationship between degreejob & & & & & & & & & \\
\hline Closely related.... & 64.1 & 63.6 & 66.5 & 73.6 & 72.0 & 78.4 & 73.4 & 71.6 & 78.6 \\
\hline Somewhat reated........................ & 28.8 & 29.4 & 25.9 & 21.3 & 23.1 & 16.0 & 19.1 & 19.8 & 17.0 \\
\hline Not related...................................... & 7.1 & 7.0 & 7.6 & 5.1 & 4.9 & 5.7 & 7.6 & 8.6 & S \\
\hline
\end{tabular}

KEY: \(\quad \mathrm{S}=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline Characteristics & Total & Universities and 4-year colleges & \[
\begin{array}{|c|}
\hline \text { Other } \\
\text { educational } \\
\text { institutions } \\
\hline
\end{array}
\] & Private for-profit & \[
\begin{array}{c|}
\text { Self- } \\
\text { employed }
\end{array}
\] & Private not-for-profit & Federal government & \[
\begin{array}{|c|}
\hline \text { State \& } \\
\text { local } \\
\text { government } \\
\hline
\end{array}
\] & Other sector \\
\hline Total.. & 484,780 & 222,530 & 12,410 & 146,720 & 28,550 & 23,840 & 34,650 & 13,330 & 2,750 \\
\hline & \multicolumn{9}{|c|}{[Percentage distribution]} \\
\hline \multicolumn{10}{|l|}{Field of doctorate:} \\
\hline Sciences.. & 83.8 & 88.5 & 97.1 & 71.2 & 91.6 & 90.5 & 86.1 & 95.3 & 93.4 \\
\hline Computer and mathematical sciences... & 6.0 & 8.0 & 5.6 & 5.4 & 2.0 & 3.7 & 3.2 & 1.2 & 3.1 \\
\hline Computer and information sciences....... & 1.3 & 1.4 & 0.6 & 1.9 & 0.3 & 0.6 & 0.4 & S & S \\
\hline Mathematical sciences....................... & 4.7 & 6.6 & 5.0 & 3.5 & 1.7 & 3.2 & 2.8 & 0.8 & 2.2 \\
\hline Life and related sciences...................... & 27.3 & 32.4 & 23.9 & 21.0 & 15.5 & 26.6 & 33.9 & 25.7 & 13.8 \\
\hline Agricultural and food sciences.............. & 3.2 & 3.3 & 2.3 & 3.4 & 2.6 & 1.5 & 4.5 & 2.0 & S \\
\hline Biological and health sciences.............. & 23.3 & 28.5 & 21.2 & 17.0 & 12.6 & 24.7 & 26.7 & 21.4 & 11.7 \\
\hline Environmental sciences...................... & 0.8 & 0.7 & 0.4 & 0.6 & 0.3 & 0.4 & 2.7 & 2.3 & S \\
\hline Physical and related sciences... & 20.9 & 17.2 & 19.1 & 29.8 & 10.2 & 17.2 & 24.2 & 8.6 & 10.2 \\
\hline Chemistry, except biochemistry........... & 10.8 & 7.2 & 11.4 & 19.8 & 5.0 & 6.3 & 7.2 & 4.1 & 6.2 \\
\hline Geology and oceanography................. & 2.7 & 2.7 & 2.2 & 2.0 & 1.8 & 2.5 & 6.6 & 2.4 & S \\
\hline Physics and astronomy..................... & 7.1 & 7.1 & 5.5 & 7.9 & 3.3 & 8.1 & 9.6 & 1.3 & 2.6 \\
\hline Other physical sciences (incl. earth)....... & 0.3 & 0.2 & S & 0.2 & S & 0.3 & 0.8 & 0.9 & S \\
\hline Social and related sciences................... & 29.6 & 30.8 & 48.4 & 14.9 & 63.9 & 43.0 & 24.8 & 59.8 & 66.2 \\
\hline Economics...... & 4.1 & 5.5 & 2.0 & 1.6 & 2.9 & 2.7 & 5.9 & 3.2 & 42.9 \\
\hline Political and related sciences.. & 3.1 & 4.4 & 3.6 & 0.9 & 2.6 & 3.2 & 3.0 & 5.5 & 3.8 \\
\hline Psychology............................... & 15.6 & 11.8 & 32.3 & 9.9 & 53.0 & 28.8 & 10.4 & 39.6 & 8.1 \\
\hline Sociology and anthropology......... & 4.2 & 6.0 & 7.3 & 1.2 & 3.6 & 5.5 & 3.2 & 6.8 & 5.0 \\
\hline Other social sciences........................ & 2.6 & 3.2 & 3.3 & 1.4 & 1.8 & 2.8 & 2.2 & 4.8 & 6.5 \\
\hline Engineering........................................ & 16.2 & 11.5 & 2.9 & 28.8 & 8.4 & 9.5 & 13.9 & 4.7 & 6.6 \\
\hline Aerospace/aeronautical....................... & 0.7 & 0.5 & S & 0.9 & 0.9 & 0.4 & 1.2 & S & S \\
\hline Chemical......................................... & 2.3 & 1.1 & 0.5 & 5.0 & 1.2 & 1.3 & 1.1 & S & 2.1 \\
\hline Civil. & 1.5 & 1.4 & S & 2.1 & 0.8 & 0.9 & 1.3 & 2.0 & S \\
\hline Electrical/computer........................... & 4.3 & 2.8 & 0.5 & 8.4 & 2.0 & 2.0 & 2.7 & S & S \\
\hline Industrial... & 0.5 & 0.6 & S & 0.5 & 0.3 & 0.3 & 0.3 & S & S \\
\hline Mechanical...... & 2.0 & 1.4 & 0.7 & 3.6 & 0.8 & 1.5 & 1.6 & S & S \\
\hline Other engineering............................... & 5.0 & 3.7 & 0.8 & 8.2 & 2.5 & 3.1 & 5.7 & 2.2 & 2.1 \\
\hline Year of doctorate: & & & & & & & & & \\
\hline 1993-94 graduates.. & 8.6 & 10.0 & 9.2 & 7.5 & 3.3 & 10.1 & 7.1 & 8.5 & 11.0 \\
\hline 1990-92 graduates.. & 12.1 & 12.2 & 11.6 & 12.4 & 8.0 & 15.8 & 10.7 & 11.7 & 11.8 \\
\hline 1985-89 graduates.............................. & 17.6 & 17.2 & 16.7 & 18.7 & 15.5 & 17.7 & 17.1 & 20.5 & 14.0 \\
\hline 1980-84 graduates........................... & 15.6 & 14.0 & 17.1 & 16.9 & 19.4 & 16.3 & 14.8 & 18.5 & 10.0 \\
\hline 1970-79 graduates......................... & 30.0 & 28.1 & 34.8 & 30.7 & 32.3 & 28.1 & 36.4 & 30.7 & 33.3 \\
\hline 1960-69 graduates.......................... & 13.3 & 15.4 & 9.3 & 11.5 & 15.4 & 8.6 & 12.4 & 8.4 & 16.6 \\
\hline Pre-1960 graduates............................ & 2.8 & 3.0 & 1.4 & 2.3 & 6.1 & 3.4 & 1.5 & 1.6 & 3.3 \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table.
}

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline Characteristics & Total & Universities and 4-year colleges & Other educational institutions & Private for-profit & \[
\begin{gathered}
\text { Self- } \\
\text { employed } \\
\hline
\end{gathered}
\] &  & Federal government & State \& local government & Other sector \\
\hline & \multicolumn{9}{|c|}{[Percentage distribution]} \\
\hline \multicolumn{10}{|l|}{Primary work activity:} \\
\hline R\&D. & 41.0 & 40.0 & 2.9 & 49.0 & 16.5 & 41.9 & 54.5 & 21.7 & 45.2 \\
\hline Applied research................................ & 20.2 & 15.3 & 1.7 & 27.4 & 9.6 & 23.0 & 35.5 & 16.0 & 31.2 \\
\hline Basic research.. & 13.7 & 23.5 & 0.8 & 2.8 & 1.7 & 13.5 & 15.4 & 3.6 & 2.9 \\
\hline Development.. & 4.9 & 0.7 & S & 12.9 & 3.7 & 3.5 & 1.9 & 1.1 & 9.6 \\
\hline Design... & 2.3 & 0.4 & S & 6.0 & 1.5 & 1.9 & 1.6 & 1.0 & S \\
\hline Teaching...... & 22.1 & 43.5 & 66.5 & 0.5 & 1.9 & 1.5 & 0.4 & 0.8 & S \\
\hline Management, sales, and administration... & 16.4 & 9.4 & 9.9 & 24.9 & 10.4 & 22.8 & 22.3 & 28.5 & 23.1 \\
\hline Computer applications.......................... & 4.4 & 1.3 & 0.7 & 9.5 & 4.2 & 3.7 & 4.2 & 4.8 & 2.9 \\
\hline Professional services........................... & 12.3 & 4.3 & 17.1 & 11.9 & 59.3 & 24.8 & 9.3 & 32.9 & 11.7 \\
\hline Other activities................................... & 3.8 & 1.5 & 2.9 & 4.2 & 7.7 & 5.4 & 9.3 & 11.3 & 17.1 \\
\hline
\end{tabular}

KEY: \(\quad \mathrm{S}=\) Suppressed because fewer than 50 weighted cases reported (See NOTE below)
NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{Characteristics} & \multirow[t]{3}{*}{Total} & & & & & & \multirow[t]{3}{*}{Teaching} & \multirow[t]{3}{*}{Management, sales, and administration} & \multirow[t]{3}{*}{Computer applications} & \multirow[t]{3}{*}{Professional services} & Page 1 of 2 \\
\hline & & \multicolumn{5}{|l|}{Research and development} & & & & & \\
\hline & & Total & Applied research & Basic research & Development & Design & & & & & Other activities \\
\hline \multirow[t]{2}{*}{Total......................................................} & 484,780 & 198,890 & 97,780 & 66,190 & 23,590 & 11,340 & 106,970 & 79,380 & 21,120 & 59,810 & 18,620 \\
\hline & \multicolumn{11}{|l|}{[Percentage distribution]} \\
\hline Sciences. & 83.8 & 80.4 & 80.1 & 94.1 & 60.2 & 45.0 & 88.1 & 80.1 & 69.1 & 96.6 & 86.2 \\
\hline Computer and mathematical sciences........ & 6.0 & 4.4 & 3.9 & 5.4 & 2.6 & 6.9 & 11.1 & 4.1 & 19.5 & 0.9 & 3.7 \\
\hline Computer and information sciences......... & 1.3 & 1.2 & 1.2 & 1.1 & 0.9 & 2.1 & 1.7 & 0.8 & 7.3 & S & 0.4 \\
\hline Mathematical sciences........................... & 4.7 & 3.2 & 2.7 & 4.3 & 1.7 & 4.8 & 9.4 & 3.3 & 12.2 & 0.9 & 3.2 \\
\hline Life and related sciences.......................... & 27.3 & 33.8 & 30.4 & 49.5 & 17.2 & 6.6 & 22.3 & 26.1 & 9.7 & 21.3 & 30.3 \\
\hline Agricultural and food sciences................. & 3.2 & 4.1 & 6.0 & 2.2 & 3.7 & 0.8 & 1.8 & 3.8 & 1.9 & 1.3 & 5.9 \\
\hline Biological and health sciences................. & 23.3 & 28.9 & 23.2 & 47.0 & 12.9 & 5.3 & 19.7 & 21.2 & 7.3 & 19.6 & 23.1 \\
\hline Environmental sciences... & 0.8 & 0.8 & 1.2 & 0.4 & 0.7 & 0.5 & 0.7 & 1.0 & 0.5 & 0.4 & 1.3 \\
\hline Physical and related sciences................... & 20.9 & 26.4 & 26.2 & 25.0 & 32.9 & 22.8 & 16.0 & 22.5 & 27.7 & 6.6 & 21.7 \\
\hline Chemistry, except biochemistry............... & 10.8 & 13.7 & 14.7 & 10.3 & 21.8 & 8.3 & 7.8 & 13.1 & 8.0 & 4.1 & 12.3 \\
\hline Geology and oceanography.................... & 2.7 & 3.3 & 3.8 & 3.9 & 1.3 & 0.5 & 2.7 & 2.3 & 2.8 & 0.8 & 3.7 \\
\hline Physics and astronomy .......................... & 7.1 & 9.0 & 7.2 & 10.6 & 9.7 & 13.8 & 5.3 & 6.9 & 16.7 & 1.4 & 5.3 \\
\hline Other physical sciences (incl. earth)........ & 0.3 & 0.3 & 0.5 & 0.2 & S & S & 0.2 & 0.2 & S & 0.2 & 0.4 \\
\hline Social and related sciences....................... & 29.6 & 15.7 & 19.6 & 14.2 & 7.6 & 8.7 & 38.8 & 27.4 & 12.3 & 67.8 & 30.6 \\
\hline Economics............................................ & 4.1 & 3.4 & 4.9 & 2.2 & 1.4 & 1.5 & 7.1 & 4.0 & 1.3 & 1.9 & 4.9 \\
\hline Political sci and related sciences.............. & 3.1 & 1.5 & 1.9 & 1.2 & 1.0 & 1.4 & 6.3 & 3.6 & 1.5 & 1.4 & 5.2 \\
\hline Psychology........................................ & 15.6 & 6.2 & 7.1 & 6.4 & 3.1 & 4.0 & 12.1 & 13.0 & 5.2 & 61.1 & 13.1 \\
\hline Sociology and anthropology.................... & 4.2 & 2.8 & 3.4 & 3.0 & 0.9 & 0.8 & 8.6 & 4.2 & 2.1 & 2.0 & 4.4 \\
\hline Other social sciences............................. & 2.6 & 1.7 & 2.2 & 1.3 & 1.1 & 1.0 & 4.6 & 2.6 & 2.2 & 1.5 & 3.0 \\
\hline Engineering........................................... & 16.2 & 19.6 & 19.9 & 5.9 & 39.8 & 55.0 & 11.9 & 19.9 & 30.9 & 3.4 & 13.8 \\
\hline Aerospace/aeronautical........................... & 0.7 & 0.8 & 1.1 & 0.3 & 1.2 & 1.7 & 0.5 & 0.9 & 1.2 & S & 0.5 \\
\hline Chemical... & 2.3 & 3.0 & 2.9 & 0.9 & 7.2 & 8.1 & 0.9 & 3.3 & 3.1 & 0.3 & 2.6 \\
\hline Civil..................................................... & 1.5 & 1.5 & 1.5 & 0.3 & 1.7 & 8.5 & 1.6 & 1.8 & 2.5 & 0.7 & 1.2 \\
\hline Electrical/computer................................. & 4.3 & 5.0 & 4.8 & 1.3 & 12.4 & 13.2 & 2.9 & 5.6 & 11.8 & 0.4 & 3.2 \\
\hline Industrial............................................... & 0.5 & 0.3 & 0.4 & S & S & 1.2 & 0.9 & 0.6 & 1.0 & S & S \\
\hline Mechanical............................................ & 2.0 & 2.6 & 2.5 & 0.8 & 5.6 & 7.5 & 1.6 & 2.1 & 3.4 & 0.4 & 1.5 \\
\hline Other engineering.................................. & 5.0 & 6.4 & 6.9 & 2.2 & 11.6 & 14.9 & 3.4 & 5.7 & 7.8 & 1.5 & 4.7 \\
\hline
\end{tabular}

NOTE: All numbers in the table are estimates derived from a sample.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
Page 1 of 1
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Field of doctorate} & \multirow[t]{2}{*}{Total} & \multicolumn{16}{|l|}{Broad occupation} \\
\hline & & Total & \multicolumn{2}{|l|}{Computer and mathematical scientists} & \multicolumn{2}{|l|}{Lite and related scientists} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Physical and } \\
& \text { related } \\
& \text { scientists }
\end{aligned}
\]} & \multicolumn{2}{|l|}{Social and related scientists} & \multicolumn{2}{|l|}{Engineers} & \multicolumn{5}{|l|}{Non-S\&E Occupations} \\
\hline & & & Nonteacher & Postsec. teacher & \[
\begin{array}{c|}
\hline \begin{array}{c}
\text { Non- } \\
\text { teacher }
\end{array}
\end{array}
\] & Postsec. teacher & Nonteacher & \begin{tabular}{l}
Postsec. \\
teacher
\end{tabular} & Nonteacher & Postsec. teacher & Nonteacher & Postsec. teacher & Total & Managers & Health & Teacher & Other \\
\hline & \multicolumn{17}{|l|}{[Percentage distribution]} \\
\hline Total. & 484,780 & 100.0 & 4.2 & 3.6 & 11.6 & 6.1 & 9.0 & 4.6 & 10.9 & 8.8 & 8.8 & 3.2 & 29.2 & 17.3 & 2.8 & 3.9 & 5.2 \\
\hline Sciences. & 406,130 & 100.0 & 3.8 & 3.9 & 13.6 & 7.3 & 10.2 & 5.4 & 12.9 & 10.5 & 2.1 & 0.3 & 30.0 & 16.7 & 3.2 & 4.5 & 5.6 \\
\hline Computer and mathematical sciences... & 29,250 & 100.0 & 25.9 & 48.3 & 0.4 & 0.2 & 0.5 & 0.2 & S & 0.3 & 2.9 & 0.8 & 20.2 & 12.1 & 0.4 & 2.5 & 5.2 \\
\hline Computer and information sciences..... & 6,440 & 100.0 & 40.2 & 33.3 & 0.8 & S & S & S & S & S & 2.3 & S & 21.5 & 11.6 & S & 3.9 & 5.6 \\
\hline Mathematical sciences...................... & 22,820 & 100.0 & 21.9 & 52.6 & 0.3 & S & 0.6 & 0.3 & S & S & 3.0 & 0.9 & 19.9 & 12.3 & 0.4 & 2.1 & 5.1 \\
\hline Life and related sciences............... & 132,190 & 100.0 & 1.4 & 0.3 & 37.3 & 20.4 & 1.8 & 1.2 & 0.6 & 0.4 & 0.8 & 0.1 & 35.8 & 17.3 & 7.5 & 5.7 & 5.2 \\
\hline Agricultural and food sciences........... & 15,440 & 100.0 & 1.0 & 0.4 & 43.6 & 18.4 & 3.8 & 0.9 & S & 0.4 & 1.1 & S & 30.1 & 16.9 & 2.6 & 1.9 & 8.7 \\
\hline Biological and health sciences........... & 112,870 & 100.0 & 1.3 & 0.3 & 36.7 & 20.8 & 1.4 & 1.1 & 0.6 & 0.3 & 0.6 & 0.1 & 36.8 & 17.3 & 8.4 & 6.4 & 4.8 \\
\hline Environmental sciences.................... & 3,890 & 100.0 & 3.2 & S & 29.3 & 16.5 & 6.7 & 6.0 & 1.6 & 2.3 & 5.1 & S & 28.5 & 21.2 & 1.8 & S & 4.6 \\
\hline Physical and related sciences.............. & 101,300 & 100.0 & 3.2 & 0.6 & 4.3 & 1.3 & 38.2 & 19.4 & 0.2 & 0.1 & 6.0 & 0.8 & 26.1 & 17.6 & 1.2 & 1.2 & 6.1 \\
\hline Chemistry, except biochemistry.... & 52,540 & 100.0 & 1.8 & 0.2 & 6.1 & 1.2 & 38.8 & 18.1 & 0.1 & S & 3.8 & 0.3 & 29.6 & 20.4 & 1.7 & 1.2 & 6.2 \\
\hline Geology and oceanography........... & 13,090 & 100.0 & 1.8 & 0.5 & 1.9 & 1.2 & 47.5 & 25.8 & S & S & 2.7 & 0.5 & 17.5 & 12.5 & S & 1.0 & 3.7 \\
\hline Physics and astronomy .. & 34,410 & 100.0 & 5.9 & 1.4 & 1.6 & 1.3 & 34.2 & 19.1 & 0.3 & 0.2 & 10.4 & 1.6 & 24.0 & 15.2 & 0.8 & 1.2 & 6.8 \\
\hline Other physical sciences (incl. earth).... & 1,260 & 100.0 & S & S & 24.6 & 5.5 & 22.3 & 10.9 & S & S & 9.2 & S & 26.2 & 19.4 & S & S & S \\
\hline Social and related sciences............... & 143,390 & 100.0 & 2.0 & 0.5 & 1.2 & 0.8 & 0.2 & 0.3 & 36.0 & 29.4 & 0.3 & 0.1 & 29.3 & 16.4 & 1.0 & 6.2 & 5.7 \\
\hline Economics.................................... & 19,860 & 100.0 & 1.1 & 0.4 & 0.6 & 0.8 & S & S & 25.5 & 43.4 & S & S & 28.0 & 17.2 & 0.6 & 7.1 & 3.1 \\
\hline Political sci and related sciences..... & 14,790 & 100.0 & 1.4 & 0.7 & S & S & 0.3 & S & 9.9 & 48.0 & S & S & 39.2 & 22.2 & 0.6 & 6.1 & 10.2 \\
\hline Psychology............. & 75,810 & 100.0 & 1.7 & 0.1 & 1.7 & 0.8 & 0.1 & S & 53.7 & 18.8 & 0.5 & 0.1 & 22.6 & 14.0 & 1.0 & 3.4 & 4.2 \\
\hline Sociology and anthropology............... & 20,530 & 100.0 & 2.0 & 0.4 & 1.0 & 0.6 & S & S & 15.1 & 46.5 & S & S & 34.3 & 18.6 & 1.2 & 7.2 & 7.2 \\
\hline Other social sciences........................ & 12,410 & 100.0 & 5.8 & 2.6 & 0.6 & 1.8 & 1.2 & 3.0 & 10.6 & 21.3 & S & 0.5 & 52.4 & 19.1 & 2.1 & 19.7 & 11.5 \\
\hline Engineering........... & 78,650 & 100.0 & 6.1 & 1.7 & 1.1 & 0.4 & 2.8 & 0.5 & 0.1 & 0.1 & 43.9 & 18.1 & 25.2 & 20.4 & 0.8 & 0.8 & 3.2 \\
\hline Aerospace/aeronautical.................... & 3,350 & 100.0 & 1.5 & S & S & S & 3.5 & S & S & S & 46.4 & 21.3 & 25.6 & 22.0 & S & S & 2.8 \\
\hline Chemical....................................... & 10,930 & 100.0 & 3.4 & S & 0.6 & 0.5 & 1.6 & 0.5 & S & S & 54.6 & 12.1 & 26.6 & 22.5 & 0.8 & S & 2.9 \\
\hline Civil. & 7,400 & 100.0 & 2.8 & 0.8 & S & S & 1.8 & S & S & S & 42.6 & 31.0 & 20.6 & 17.7 & S & 0.7 & 1.9 \\
\hline Electrical/computer.. & 20,780 & 100.0 & 11.9 & 2.7 & 0.5 & 0.3 & 1.3 & 0.3 & S & S & 38.2 & 17.2 & 27.4 & 23.4 & 0.6 & S & 3.3 \\
\hline Industrial. & 2,240 & 100.0 & 13.5 & 5.7 & S & S & S & S & S & S & 15.6 & 30.8 & 31.1 & 19.6 & S & 7.9 & 2.6 \\
\hline Mechanical...... & 9,710 & 100.0 & 2.5 & 0.8 & 1.2 & S & 1.7 & 0.8 & S & S & 50.7 & 21.8 & 20.3 & 16.8 & 0.7 & S & 2.9 \\
\hline Other engineering... & 24,230 & 100.0 & 4.7 & 2.0 & 2.1 & 0.6 & 5.5 & 1.0 & 0.2 & S & 43.9 & 14.4 & 25.4 & 19.0 & 1.1 & 1.3 & 3.9 \\
\hline
\end{tabular}

Table 38. Median annual salaries of doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Field of doctorate} & \multicolumn{3}{|c|}{Total} & \multicolumn{3}{|c|}{White} & \multicolumn{3}{|c|}{Black} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total.. & \$60,200 & \$65,000 & \$50,000 & \$62,000 & \$65,000 & \$50,000 & \$55,000 & \$57,000 & \$51,000 \\
\hline Sciences.. & 60,000 & 62,000 & 50,000 & 60,000 & 63,000 & 50,000 & 53,000 & 55,000 & 51,000 \\
\hline Computer and mathematical sciences... & 60,000 & 61,000 & 53,000 & 62,000 & 64,000 & 54,000 & 57,000 & 57,000 & S \\
\hline Computer and information sciences..... & 65,000 & 66,000 & 56,500 & 66,000 & 68,000 & 56,000 & S & S & S \\
\hline Mathematical sciences...... & 60,000 & 60,000 & 51,000 & 60,900 & 62,000 & 52,600 & 55,000 & 57,000 & S \\
\hline Life and related sciences... & 57,000 & 60,000 & 49,000 & 58,000 & 60,800 & 50,000 & 51,000 & 53,000 & 50,000 \\
\hline Agricultural and food sciences... & 55,000 & 57,500 & 45,000 & 56,200 & 58,500 & 45,000 & 47,000 & 47,000 & S \\
\hline Biological and heath sciences..... & 57,700 & 60,100 & 50,000 & 59,000 & 62,000 & 50,000 & 52,000 & 54,200 & 50,000 \\
\hline Environmental sciences... & 55,900 & 57,000 & 48,000 & 56,500 & 58,000 & 48,900 & S & S & S \\
\hline Physical and related sciences.... & 66,000 & 68,000 & 56,000 & 68,500 & 70,000 & 58,800 & 59,000 & 59,000 & S \\
\hline Chemistry, except biochemistry... & 68,000 & 70,000 & 58,800 & 70,000 & 71,000 & 60,000 & 57,500 & 59,000 & S \\
\hline Geology and oceanography....... & 60,000 & 60,000 & 50,000 & 60,000 & 62,000 & 50,000 & S & S & S \\
\hline Physics and astronomy... & 68,000 & 69,000 & 57,000 & 70,000 & 70,000 & 60,000 & 65,000 & 65,000 & S \\
\hline Other physical sciences (incl. earh).... & 50,000 & 54,000 & 42,000 & 50,000 & 53,500 & 45,000 & S & S & S \\
\hline Social and related sciences... & 55,500 & 60,000 & 50,000 & 56,000 & 60,000 & 50,000 & 52,300 & 54,000 & 51,600 \\
\hline Economics. & 65,000 & 65,000 & 60,000 & 65,000 & 66,000 & 62,000 & 60,000 & 68,000 & S \\
\hline Poilitical and related sciences. & 55,000 & 56,500 & 50,000 & 55,000 & 58,000 & 50,000 & 60,000 & 60,000 & 60,000 \\
\hline Psychology...... & 56,000 & 60,000 & 50,000 & 56,000 & 60,000 & 50,000 & 56,000 & 58,000 & 55,000 \\
\hline Sociology and anthropology... & 50,000 & 51,000 & 46,000 & 50,000 & 52,000 & 47,000 & 50,000 & 50,000 & 50,000 \\
\hline Other social sciences... & 50,000 & 56,100 & 47,500 & 52,800 & 60,000 & 48,800 & 42,000 & 42,000 & S \\
\hline Engineering... & \multirow[t]{2}{*}{70,000
72,000} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 70,000 \\
& 70,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
58,200 \\
\mathrm{~S}
\end{array}
\]} & \multirow[t]{2}{*}{72,200
72,500} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 74,000 \\
& 72,500
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
60,000 \\
S
\end{array}
\]} & 65,900 & 66,500 & \multirow[t]{2}{*}{s} \\
\hline Aerospace/aeronautical. & & & & & & & s & S & \\
\hline Chemical... & \multirow[t]{2}{*}{\[
\begin{aligned}
& 73,000 \\
& 65,000
\end{aligned}
\]} & 74,600 & 61,600 & 75,000 & 76,000 & \multirow[t]{2}{*}{\[
\begin{aligned}
& 61,600 \\
& 52,000
\end{aligned}
\]} & \multirow[t]{2}{*}{S
S} & \multirow[t]{2}{*}{S} & S \\
\hline Civil. & & 65,000 & 54,000 & 66,000 & 67,000 & & & & S \\
\hline Electrical/computer. & \multirow[t]{2}{*}{\[
\begin{aligned}
& 75,000 \\
& 60,000
\end{aligned}
\]} & 75,000 & 58,800 & 78,000 & 79,400 & 54,800 & 68,000 & 70,000 & S \\
\hline Industria... & & 60,000 & 54,000 & 59,000 & 60,000 & 52,000 & s & S & S \\
\hline Mechanical. & \[
\begin{aligned}
& 60,000 \\
& 67,000
\end{aligned}
\] & \multirow[t]{2}{*}{\[
\begin{array}{r}
67,000 \\
70,000 \\
\hline
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 62,000 \\
& 56,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 70,000 \\
& 70,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 70,000 \\
& 71,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
5,000 \\
\mathrm{~S} \\
\hline 58,000
\end{array}
\]} & \multirow[t]{2}{*}{S
80,000} & \multirow[t]{2}{*}{S
80,000} & \multirow[b]{2}{*}{S} \\
\hline Other engineering... & 69,500 & & & & & & & & \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table.
}

Table 38. Median annual salaries of doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 1995

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Field of doctorate} & \multicolumn{3}{|l|}{Asian or Pacific Islander} & \multicolumn{3}{|c|}{Hispanic} & \multicolumn{3}{|c|}{Native American} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total.. & \$60,000 & \$61,000 & \$48,000 & \$54,400 & \$58,000 & \$42,000 & \$52,000 & \$52,000 & \$49,000 \\
\hline Sciences.. & 53,300 & 56,000 & 47,000 & 52,000 & 56,000 & 41,000 & 50,000 & 50,000 & 48,000 \\
\hline Computer and mathematical sciences... & 55,000 & 57,000 & 54,000 & 49,900 & 50,000 & S & S & S & S \\
\hline Computer and information sciences.... & 60,400 & 62,000 & S & S & S & S & S & S & S \\
\hline Mathematical sciences...................... & 50,000 & 50,000 & 50,000 & 48,000 & 49,900 & S & S & S & S \\
\hline Life and related sciences. & 49,000 & 52,000 & 40,000 & 52,500 & 55,000 & 40,500 & 56,000 & 65,000 & S \\
\hline Agricultural and food sciences..... & 50,000 & 52,000 & 45,000 & 51,000 & 55,000 & S & S & S & S \\
\hline Biological and health sciences..... & 48,500 & 52,000 & 40,000 & 53,400 & 60,000 & 40,500 & 56,000 & S & S \\
\hline Environmental sciences........... & 48,000 & 50,000 & S & S & S & S & S & S & S \\
\hline Physical and related sciences. & 60,000 & 60,600 & 52,100 & 60,200 & 62,000 & 40,000 & 73,000 & 73,000 & S \\
\hline Chemistry, except biochemistry... & 60,000 & 63,300 & 52,800 & 60,000 & 63,000 & S & S & S & S \\
\hline Geology and oceanography..... & 45,000 & 46,000 & S & 55,000 & 56,000 & S & S & S & S \\
\hline Physics and astronomy.... & 60,000 & 60,000 & 55,000 & 62,900 & 62,900 & S & S & S & S \\
\hline Other physical sciences (incl. earth).... & S & S & S & S & S & S & S & S & S \\
\hline Social and related sciences.... & 50,900 & 53,000 & 46,100 & 48,500 & 53,000 & 43,100 & 46,000 & 45,000 & 48,000 \\
\hline Economics.. & 53,000 & 53,000 & 55,800 & 70,000 & 63,000 & S & S & S & S \\
\hline Political and related sciences.. & 56,000 & 58,000 & S & 42,000 & 42,000 & S & S & S & S \\
\hline Psychology....................... & 50,000 & 52,000 & 48,000 & 51,000 & 56,000 & 45,000 & 50,000 & 50,000 & 48,000 \\
\hline Sociology and anthropology. & 43,000 & 48,000 & 37,500 & 45,000 & 50,000 & 40,000 & S & S & S \\
\hline Other social sciences.......... & 48,000 & 57,000 & 42,000 & 40,000 & 47,000 & S & S & S & S \\
\hline Engineering.......................................... & 65,600 & 66,900 & 54,000 & 62,900 & 64,000 & S & S & S & S \\
\hline Aerospace/aeronautical..................... & 65,000 & 65,000 & S & S & S & S & S & S & S \\
\hline Chemical............. & 70,000 & 70,000 & S & 60,000 & 60,000 & S & S & S & S \\
\hline Civil. & 62,500 & 62,500 & S & 50,000 & 50,000 & S & S & S & S \\
\hline Electrical/computer. & 69,000 & 70,000 & 60,000 & 65,000 & 65,000 & S & S & S & S \\
\hline Industrial... & 65,000 & 65,000 & S & S & S & S & S & S & S \\
\hline Mechanical. & 60,000 & 60,000 & S & S & S & S & S & S & S \\
\hline Other engineer & 64,000 & 65,000 & 50,000 & 65,000 & 70,000 & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad \mathrm{S}=\) Median based on fewer than 200 weighted cases-suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Occupation} & & & & \multicolumn{6}{|r|}{Page 1 of 2} \\
\hline & \multicolumn{3}{|c|}{Total} & \multicolumn{3}{|c|}{White} & \multicolumn{3}{|c|}{Black} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total. & \$60,200 & \$65,000 & \$50,000 & \$62,000 & \$65,000 & \$50,000 & \$55,000 & \$57,000 & \$51,000 \\
\hline Scientists. & 55,000 & 59,000 & 47,000 & 56,300 & 60,000 & 48,000 & 50,000 & 51,000 & 46,000 \\
\hline Computer and mathematical scientists. & 60,000 & 60,000 & 51,300 & 60,000 & 61,000 & 52,000 & 55,000 & 55,000 & S \\
\hline Computer and information scientists. & 69,000 & 70,000 & 61,000 & 70,000 & 70,000 & 61,000 & S & S & S \\
\hline Mathematical scientists. & 66,000 & 67,500 & 55,000 & 68,000 & 69,500 & 61,000 & S & S & S \\
\hline Postsecondary teachers, computer and mathematical sciences......... & 51000 & 52000 & 45000 & 52000 & 54000 & 47000 & 51,000 & 52,000 & S \\
\hline Life and related scientists. & 53,300 & 56,000 & 44,000 & 55,000 & 58,000 & 45,000 & 46,000 & 47,000 & 43,000 \\
\hline Agricultural scientists.. & 54,000 & 56,500 & 44,500 & 55,000 & 58,000 & 45,000 & S & S & S \\
\hline Biological scientists. & 53,000 & 57,000 & 41,500 & 55,000 & 60,000 & 45,000 & 42,000 & 36,000 & S \\
\hline Forestry and conservation scientists. & 59,000 & 64,000 & S & 60,000 & 64,000 & S & S & S & S \\
\hline Postsecondary teachers, life and related sciences. & 53,800 & 55,000 & 46,000 & 54,000 & 55,500 & 47,000 & 47,000 & 47,000 & 42,000 \\
\hline Physical and related scientists.. & 60,000 & 61,000 & 52,000 & 61,000 & 62,000 & 52,000 & 53,300 & 53,300 & S \\
\hline Chemists, except biochemists. & 65,000 & 67,000 & 60,000 & 68,000 & 69,000 & 61,000 & 62,500 & 62,500 & S \\
\hline Earth scientists. & 65,000 & 65,000 & 62,700 & 65,000 & 65,000 & 64,500 & S & S & S \\
\hline Physicists and astronomers. & 64,400 & 65,100 & 51,000 & 67,000 & 68,700 & 47,000 & S & S & S \\
\hline Other physical scientists.. & 65,000 & 65,000 & 61,000 & 65,000 & 65,000 & S & S & S & S \\
\hline Postsecondary teachers, physical and related sciences. \(\qquad\) & 50,000 & 51,100 & 40,000 & 50,000 & 52,000 & 40,000 & 41,000 & 41,000 & S \\
\hline Social and related scientists. & 53,000 & 56,000 & 47,500 & 54,000 & 57,000 & 47,500 & 50,000 & 51,000 & 50,000 \\
\hline Economists & 75,000 & 75,000 & 72,000 & 75,000 & 75,000 & 75,000 & S & S & S \\
\hline Political scientists. & 60,000 & 60,000 & 63,200 & 70,000 & 75,000 & 63,200 & S & S & S \\
\hline Psychologists. & 58,000 & 60,800 & 50,000 & 59,000 & 62,000 & 50,000 & 58,000 & 60,000 & 56,000 \\
\hline Sociologists and anthropologists.. & 52,000 & 55,000 & 52,000 & 54,000 & 55,000 & 52,000 & S & S & S \\
\hline S\&T historians and other social scientists.. & 53,000 & 59,800 & 45,500 & 53,700 & 61,000 & 45,000 & S & S & S \\
\hline Postsecondary teachers, social and related sciences.... & 49,000 & 51,000 & 43,000 & 50,000 & 52,000 & 43,000 & 45,000 & 46,000 & 44,700 \\
\hline Engineers... & 67,000 & 67,000 & 58,300 & 68,600 & 70,000 & 58,300 & 65,000 & 65,000 & S \\
\hline Aerospace and related engineers. & 70,000 & 70,000 & S & 75,000 & 75,000 & S & S & S & S \\
\hline Chemical engineers... & 70,000 & 70,000 & 61,900 & 71,900 & 72,000 & 61,700 & S & S & S \\
\hline Civil and architectural engineers.. & 60,800 & 60,600 & S & 68,000 & 67,500 & S & S & S & S \\
\hline Electric and related engineers.. & 72,000 & 72,000 & 64,000 & 75,000 & 75,000 & S & S & S & S \\
\hline Industrial engineers... & 66,300 & 66,300 & S & 70,000 & 76,300 & S & S & S & S \\
\hline Mechanical engineers.. & 66,300 & 67,000 & S & 73,200 & 73,200 & S & S & S & S \\
\hline Other engineers.. & 67,000 & 68,000 & 62,000 & 69,300 & 70,000 & 62,500 & S & S & S \\
\hline Postsecondary teachers, engineering. & 60,000 & 60,000 & 53,000 & 60,000 & 62,000 & 52,600 & 64,000 & 63,000 & S \\
\hline Non-S\&E occupations.... & 73,500 & 79,000 & 55,000 & 75,000 & 80,000 & 55,000 & 60,000 & 62,500 & 56,000 \\
\hline Managers, administrators, etc. & 84,800 & 87,600 & 69,000 & 85,000 & 88,000 & 69,600 & 70,500 & 72,300 & 65,000 \\
\hline Health and related occupations.. & 65,000 & 77,000 & 50,000 & 67,000 & 80,000 & 50,000 & 60,200 & S & S \\
\hline Teachers, except S\&E postsecondary teachers. & 50,000 & 53,000 & 47,000 & 50,000 & 53,000 & 47,000 & 50,000 & 52,000 & 48,000 \\
\hline Social services and related occupations... & 38,000 & 36,400 & 40,000 & 38,000 & 38,000 & 38,000 & S & S & S \\
\hline Technologists, etc............ & 62,000 & 63,000 & 44,000 & 62,000 & 64,000 & 52,200 & S & S & S \\
\hline Sales and marketing occupations... & 67,000 & 68,000 & 60,000 & 68,000 & 70,000 & 58,000 & S & S & S \\
\hline Other non-S\&E occupations... & 52,000 & 53,700 & 50,000 & 54,000 & 54,900 & 50,000 & 42,000 & S & S \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Occupation} & \multicolumn{3}{|l|}{Asian or Pacific Islander} & \multicolumn{3}{|c|}{Hispanic} & \multicolumn{3}{|c|}{Native American} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total. & \$60,000 & \$61,000 & \$48,000 & \$54,400 & \$58,000 & \$42,000 & \$52,000 & \$52,000 & \$49,000 \\
\hline Scientists. & 50,900 & 53,000 & 45,000 & 49,200 & 52,000 & 40,000 & 50,000 & 50,000 & 48,000 \\
\hline Computer and mathematical scientists. & 60,000 & 60,000 & 54,500 & 48,000 & 49,900 & S & S & S & S \\
\hline Computer and information scientists... & 65,000 & 65,600 & 63,000 & 65,000 & 65,000 & S & S & S & S \\
\hline Mathematical scientists. & 60,300 & 65,000 & S & S & S & S & S & S & S \\
\hline Postsecondary teachers, computer and mathematical sciences. \(\qquad\) & 47,500 & 48,000 & 42,100 & 45,500 & 46,200 & S & S & S & S \\
\hline Life and related scientists. & 42,000 & 46,000 & 35,000 & 44,700 & 52,000 & 37,600 & 59,900 & S & S \\
\hline Agricultural scientists.. & 52,000 & 53,200 & S & 51,000 & S & S & S & S & S \\
\hline Biological scientists.. & 38,000 & 41,000 & 33,000 & 44,000 & 52,000 & 35,000 & S & S & S \\
\hline Forestry and conservation scientists.. & S & S & S & S & S & S & S & S & S \\
\hline Postsecondary teachers, life and related sciences... & 50,000 & 52,000 & 42,000 & 43,000 & 45,000 & S & S & S & S \\
\hline Physical and related scientists.. & 53,000 & 54,000 & 52,800 & 55,000 & 57,000 & 39,400 & S & S & S \\
\hline Chemists, except biochemists.. & 60,000 & 60,000 & 56,000 & 57,000 & 55,000 & S & S & S & S \\
\hline Earth scientists.. & 47,500 & 47,500 & S & S & S & S & S & S & S \\
\hline Physicists and astronomers.. & 44,000 & 41,000 & 54,000 & S & S & S & S & S & S \\
\hline Other physical scientists.. & 67,000 & S & S & S & S & S & S & S & S \\
\hline Postsecondary teachers, physical and related sciences. & 50,000 & 50,000 & 43,000 & 50,200 & 52,000 & S & S & S & S \\
\hline Social and related scientists. & 50,000 & 50,900 & 47,000 & 46,000 & 50,000 & 41,000 & 48,000 & 46,000 & S \\
\hline Economists.. & 67,000 & 70,000 & 60,000 & S & S & S & S & S & S \\
\hline Political scientists. & S & S & S & S & S & S & S & S & S \\
\hline Psychologists...................................................... & 50,000 & 54,900 & 47,500 & 51,000 & 56,000 & 45,000 & 50,000 & S & S \\
\hline Sociologists and anthropologists.. & S & S & S & S & S & S & S & S & S \\
\hline S\&T historians and other social scientists................... & S & S & S & S & S & S & S & S & S \\
\hline Postsecondary teachers, social and related sciences.... & 46,900 & 48,200 & 42,000 & 44,000 & 48,100 & 40,000 & 43,700 & 45,000 & S \\
\hline Engineers.............................. & 64,000 & 64,500 & 57,200 & 57,000 & 59,000 & S & S & S & S \\
\hline Aerospace and related engineers.. & 68,000 & 67,700 & S & S & S & S & S & S & S \\
\hline Chemical engineers.................... & 68,000 & 68,000 & S & S & S & S & S & S & S \\
\hline Civil and architectural engineers.. & 58,000 & 58,300 & S & S & S & S & S & S & S \\
\hline Electric and related engineers. & 69,300 & 70,000 & S & 65,000 & S & S & S & S & S \\
\hline Industrial engineers.......... & 52,000 & 51,000 & S & S & S & S & S & S & S \\
\hline Mechanical engineers.. & 60,000 & 60,000 & S & S & S & S & S & S & S \\
\hline Other engineers.................................................... & 63,000 & 63,000 & 61,000 & 66,000 & 66,000 & S & S & S & S \\
\hline Postsecondary teachers, engineering................... & 57,400 & 58,000 & S & 53,300 & 53,300 & S & S & S & S \\
\hline Non-S\&E occupations....................................... & 72,000 & 75,000 & 52,000 & 70,000 & 72,000 & 50,000 & 50,000 & 55,000 & S \\
\hline Managers, administrators, etc. & 86,400 & 90,000 & 65,000 & 80,000 & 83,700 & 61,800 & 58,400 & S & S \\
\hline Health and related occupations... & 43,000 & 54,000 & 36,000 & 77,900 & S & S & S & S & S \\
\hline Teachers, except S\&E postsecondary teachers.. & 49,000 & 56,000 & 36,400 & 45,000 & S & 41,700 & S & S & S \\
\hline Social services and related occupations......... & S & S & S & S & S & S & S & S & S \\
\hline Technologists, etc............................................ & 62,000 & 62,000 & S & S & S & S & S & S & S \\
\hline Sales and marketing occupations.... & 55,000 & 55,000 & S & S & S & S & S & S & S \\
\hline Other non-S\&E occupations..... & 52,000 & 57,000 & S & 40,000 & 38,000 & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad \mathrm{S}=\) Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients


KEY: \(\quad\) S = Median based on fewer than 200 weighted cases-suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

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\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline Occupation & Total & \[
\begin{array}{|c|}
\hline \text { Universities } \\
\text { and 4-year } \\
\text { colleges }
\end{array}
\] & \begin{tabular}{|c|}
\hline Other \\
educational \\
institutions
\end{tabular} & Private-forprofit & SelfEmployed & Private not-forprofit & Federal government & State \& local gov't & Other sector \\
\hline Total. & \$60,200 & \$52,300 & \$45,000 & \$75,000 & \$70,000 & \$60,000 & \$66,000 & \$50,000 & \$95,000 \\
\hline Scientists. & 55,000 & 50,000 & 45,000 & 70,000 & 70,000 & 55,000 & 61,000 & 50,000 & 82,000 \\
\hline Computer and mathematical scientists. & 60,000 & 51,000 & 46,500 & 70,000 & 65,000 & 76,000 & 65,000 & 48,000 & S \\
\hline Computer and information scientists.. & 69,000 & 50,000 & S & 70,000 & 60,000 & 72,000 & 65,000 & 48,700 & S \\
\hline Mathematical scientists. & 66,000 & 51,000 & S & 72,000 & S & 76,400 & 63,000 & S & S \\
\hline Postsecondary teachers, computer and mathematical sciences. & 51,000 & 51,000 & 47,000 & S & S & S & S & S & S \\
\hline Life and related scientists. & 53,300 & 50,000 & 40,000 & 67,000 & 40,000 & 48,000 & 55,000 & 46,000 & S \\
\hline Agricultural scientists. & 54,000 & 50,000 & S & 62,000 & 35,000 & S & 61,000 & S & S \\
\hline Biological scientists.. & 53,000 & 40,800 & S & 68,000 & 40,000 & 48,000 & 55,000 & 49,000 & S \\
\hline Forestry and conservation scientists. & 59,000 & S & S & S & S & S & 58,600 & S & S \\
\hline Postsecondary teachers, life and related sciences. & 53,800 & 54,200 & 40,000 & S & S & S & S & S & S \\
\hline Physical and related scientists. & 60,000 & 50,000 & 44,000 & 70,000 & 50,000 & 63,100 & 66,000 & 41,300 & S \\
\hline Chemists, except biochemists. & 65,000 & 35,500 & S & 69,000 & S & 64,000 & 61,000 & 41,300 & S \\
\hline Earth scientists. & 65,000 & 50,000 & S & 73,000 & 50,000 & 63,000 & 70,800 & 41,000 & S \\
\hline Physicists and astronomers.. & 64,400 & 50,000 & S & 74,000 & S & 62,000 & 65,100 & S & S \\
\hline Other physical scientists... & 65,000 & 50,000 & S & 70,000 & S & S & S & S & S \\
\hline Postsecondary teachers, physical and related sciences. & 50,000 & 50,000 & 44,000 & S & S & S & S & S & S \\
\hline Social and related scientists & 53,000 & 49,200 & 46,000 & 67,000 & 75,000 & 50,000 & 60,800 & 50,000 & 92,000 \\
\hline Economists. & 75,000 & 56,000 & S & 77,000 & S & 79,300 & 68,000 & S & 100,000 \\
\hline Political scientists. & 60,000 & 50,000 & S & S & S & S & 75,000 & S & S \\
\hline Psychologists.. & 58,000 & 45,000 & 48,000 & 65,000 & 75,000 & 48,000 & 59,000 & 50,000 & S \\
\hline Sociologists and anthropologists.. & 52,000 & 55,000 & S & 75,000 & 45,000 & 60,000 & 52,000 & 41,400 & S \\
\hline S\&T historians and other social scientists. & 53,000 & 53,000 & S & 53,000 & S & 50,000 & 72,000 & 41,000 & S \\
\hline Postsecondary teachers, social and related sciences.... & 49,000 & 49,400 & 40,000 & S & S & S & S & S & S \\
\hline Engineers............................................................. & 67,000 & 60,000 & S & 70,000 & 80,000 & 70,000 & 65,900 & 49,000 & S \\
\hline Aerospace and related engineers.. & 70,000 & 72,400 & S & 70,000 & S & 67,000 & 70,000 & S & S \\
\hline Chemical engineers... & 70,000 & 60,000 & S & 70,000 & S & S & S & S & S \\
\hline Civil and architectural engineers... & 60,800 & 60,000 & S & 65,000 & 85,000 & S & 67,500 & 50,500 & S \\
\hline Electric and related engineers.. & 72,000 & 60,000 & S & 73,000 & 104,000 & 78,000 & 65,000 & S & S \\
\hline Industrial engineers... & 66,300 & 50,000 & S & 67,000 & S & S & S & S & S \\
\hline Mechanical engineers.. & 66,300 & 61,000 & S & 67,000 & S & S & 67,000 & S & 5 \\
\hline Other engineers.... & 67,000 & 55,000 & S & 70,000 & 65,000 & 70,000 & 64,200 & 50,000 & S \\
\hline Postsecondary teachers, engineering... & 60,000 & 60,000 & S & S & S & S & S & S & S \\
\hline Non-S\&E occupations.... & 73,500 & 62,000 & 46,000 & 89,500 & 60,000 & 67,000 & 79,000 & 53,000 & 100,000 \\
\hline Managers, administrators, etc. & 84,800 & 76,000 & 62,700 & 95,000 & 60,000 & 73,500 & 82,000 & 57,000 & 120,000 \\
\hline Health and related occupations.. & 65,000 & 49,000 & S & 100,000 & 90,000 & 60,000 & 60,000 & 40,000 & S \\
\hline Teachers, except S\&E postsecondary teachers. & 50,000 & 50,000 & 40,500 & S & S & S & S & S & 5 \\
\hline Social services and related occupations... & 38,000 & S & 44,000 & S & S & 32,000 & S & 32,000 & S \\
\hline Technologists, etc........................ & 62,000 & 45,000 & S & 64,000 & 65,000 & S & 52,000 & S & S \\
\hline Sales and marketing occupations.. & 67,000 & S & S & 68,000 & 60,000 & S & S & S & S \\
\hline Other non-S\&E occupations.. & 52,000 & 45,000 & S & 60,000 & 45,000 & 45,000 & 66,000 & 46,000 & S \\
\hline
\end{tabular}

KEY: \(\quad\) S = Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|r|}{Page 1 of 1} \\
\hline Field of doctorate & Total & R\&D & Teaching & Management, sales, and administration & Computer applications & Other \\
\hline Total... & \$60,200 & \$63,000 & \$50,000 & \$79,000 & \$64,000 & \$60,000 \\
\hline Sciences... & 60,000 & 60,400 & 48,000 & 75,000 & 64,000 & 60,000 \\
\hline Computer and mathematical sciences..... & 60,000 & 67,000 & 50,000 & 84,000 & 70,000 & 74,000 \\
\hline Computer and information sciences....... & 65,000 & 70,000 & 50,000 & 84,100 & 68,000 & S \\
\hline Mathematical sciences....................... & 60,000 & 65,400 & 50,000 & 84,000 & 70,000 & 69,000 \\
\hline Life and related sciences.......... & 57,000 & 56,700 & 48,200 & 72,000 & 50,000 & 61,400 \\
\hline Agricultural and food sciences.............. & 55,000 & 55,000 & 49,000 & 65,000 & 52,000 & 54,000 \\
\hline Biological and health sciences.............. & 57,700 & 57,100 & 48,000 & 74,000 & 50,000 & 65,000 \\
\hline Environmental sciences...................... & 55,900 & 57,000 & 48,200 & 73,000 & S & 55,000 \\
\hline Physical and related sciences................. & 66,000 & 66,000 & 48,900 & 84,000 & 66,000 & 73,600 \\
\hline Chemistry, except biochemistry............ & 68,000 & 67,300 & 45,000 & 84,000 & 65,000 & 75,000 \\
\hline Geology and oceanography................. & 60,000 & 63,000 & 50,000 & 78,000 & 55,000 & 50,000 \\
\hline Physics and astronomy...................... & 68,000 & 66,800 & 51,000 & 90,000 & 70,000 & 80,000 \\
\hline Other physical sciences (incl. earth)...... & 50,000 & 49,100 & 41,000 & S & S & S \\
\hline Social and related sciences.................. & 55,500 & 60,000 & 48,000 & 70,000 & 60,000 & 59,000 \\
\hline Economics............................ & 65,000 & 68,400 & 53,000 & 90,000 & 75,000 & 90,000 \\
\hline Political and related sciences... & 55,000 & 57,500 & 46,200 & 76,100 & 50,000 & 75,000 \\
\hline Psychology............................... & 56,000 & 58,000 & 46,000 & 63,000 & 65,000 & 58,800 \\
\hline Sociology and anthropology................. & 50,000 & 52,000 & 45,000 & 65,000 & 45,000 & 47,000 \\
\hline Other social sciences........... & 50,000 & 60,000 & 45,000 & 70,000 & 60,200 & 50,000 \\
\hline Engineering....................................... & 70,000 & 69,000 & 60,000 & 91,000 & 65,000 & 75,000 \\
\hline Aerospace/aeronautical...................... & 72,000 & 67,400 & 67,000 & 98,000 & 68,200 & S \\
\hline Chemical.................. & 73,000 & 70,000 & 57,000 & 94,000 & 70,000 & 80,000 \\
\hline Civil. & 65,000 & 60,800 & 60,000 & 96,800 & 60,000 & 75,000 \\
\hline Electrical/computer.. & 75,000 & 72,000 & 57,400 & 95,000 & 67,000 & 80,000 \\
\hline Industrial.. & 60,000 & 65,700 & 56,000 & 86,000 & 60,000 & S \\
\hline Mechanical..................................... & 67,000 & 67,500 & 52,000 & 92,400 & 61,000 & 56,500 \\
\hline Other engineering............................. & 69,500 & 67,200 & 62,000 & 86,000 & 62,000 & 75,000 \\
\hline
\end{tabular}

KEY: \(\quad\) S = Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|r|}{Page 1 of 1} \\
\hline Occupation & Total & R\&D & Teaching & \[
\begin{array}{|c|}
\hline \text { Management, } \\
\text { sales, and } \\
\text { administration }
\end{array}
\] & Computer applications & Other \\
\hline Total. & \$60,200 & \$63,000 & \$50,000 & \$79,000 & \$64,000 & \$60,000 \\
\hline Scientists.. & 55,000 & 60,000 & 48,300 & 64,000 & 65,000 & 60,000 \\
\hline Computer and mathematical scientists.. & 60,000 & 66,000 & 50,000 & 69,000 & 65,000 & 65,000 \\
\hline Computer and information scientists... & 69,000 & 72,600 & S & 72,000 & 65,000 & 70,000 \\
\hline Mathematical scientists.. & 66,000 & 68,000 & S & 70,000 & 62,500 & 60,000 \\
\hline Postsecondary teachers, computer and mathematical sciences...... & 51,000 & 55,000 & 50,000 & S & S & S \\
\hline Life and related scientists.. & 53,300 & 54,500 & 48,800 & 60,000 & 45,000 & 61,000 \\
\hline Agricultural scientists.. & 54,000 & 54,000 & S & 60,000 & S & 54,000 \\
\hline Biological scientists... & 53,000 & 51,300 & S & 60,000 & 45,000 & 61,000 \\
\hline Forestry and conservation scientists. & 59,000 & 60,000 & S & S & S & S \\
\hline Postsecondary teachers, life and related sciences.. & 53,800 & 60,000 & 48,700 & 60,700 & S & 82,000 \\
\hline Physical and related scientists... & 60,000 & 64,000 & 48,000 & 70,500 & 67,200 & 65,000 \\
\hline Chemists, except biochemists... & 65,000 & 65,000 & S & 70,000 & 65,000 & 60,000 \\
\hline Earth scientists.. & 65,000 & 64,900 & S & 79,900 & 61,000 & 65,000 \\
\hline Physicists and astronomers.. & 64,400 & 61,600 & S & 70,000 & 71,000 & 76,000 \\
\hline Other physical scientists... & 65,000 & 63,900 & S & S & S & 65,000 \\
\hline Postsecondary teachers, physical and related sciences.. & 50,000 & 57,000 & 48,000 & 58,000 & S & 52,000 \\
\hline Social and related scientists. & 53,000 & 57,000 & 47,800 & 60,000 & 53,700 & 59,000 \\
\hline Economists.. & 75,000 & 72,000 & S & 80,000 & S & 80,000 \\
\hline Political scientists. & 60,000 & 60,000 & S & S & S & 63,200 \\
\hline Psychologists............. & 58,000 & 55,000 & S & 59,000 & S & 59,000 \\
\hline Sociologists and anthropologists.. & 52,000 & 54,000 & S & S & S & 46,000 \\
\hline S\&T historians and other social scientists. & 53,000 & 53,000 & S & S & S & 58,400 \\
\hline Postsecondary teachers, social and related sciences..... & 49,000 & 54,100 & 48,000 & 64,000 & S & 53,000 \\
\hline Engineers........................................................................... & 67,000 & 67,900 & 60,000 & 74,000 & 65,000 & 75,000 \\
\hline Aerospace and related engineers... & 70,000 & 70,000 & S & 75,000 & 72,000 & S \\
\hline Chemical engineers... & 70,000 & 69,200 & S & 73,000 & 70,000 & S \\
\hline Civil and architectural engineers......... & 60,800 & 60,000 & S & 75,000 & S & 85,600 \\
\hline Electric and related engineers... & 72,000 & 72,000 & S & 90,000 & 68,600 & 80,000 \\
\hline Industrial engineers............. & 66,300 & 60,000 & S & S & S & S \\
\hline Mechanical engineers.... & 66,300 & 67,000 & S & 72,600 & 63,100 & 75,000 \\
\hline Other engineers.... & 67,000 & 67,700 & S & 65,000 & 65,000 & 68,000 \\
\hline Postsecondary teachers, engineering....................................... & 60,000 & 60,000 & 60,000 & 78,000 & S & S \\
\hline Non-S\&E occupations........................................................... & 73,500 & 77,000 & 49,000 & 83,000 & 63,000 & 64,600 \\
\hline Managers, administrators, etc. & 84,800 & 85,000 & 56,000 & 85,000 & 78,000 & 78,000 \\
\hline Health and related occupations... & 65,000 & 69,000 & S & 55,000 & S & 65,000 \\
\hline Teachers, except S\&E postsecondary teachers........ & 50,000 & 59,900 & 48,000 & 64,000 & S & 53,000 \\
\hline Social services and related occupations..................................... & 38,000 & S & S & S & S & 36,000 \\
\hline Technologists, etc.......................... & 62,000 & 63,000 & S & 59,100 & 61,000 & 60,000 \\
\hline Sales and marketing occupations........................................ & 67,000 & 85,000 & S & 65,000 & S & 70,000 \\
\hline Other non-S\&E occupations................................................... & 52,000 & 52,000 & 65,200 & 50,000 & 46,000 & 54,000 \\
\hline
\end{tabular}

KEY: \(\quad\) S = Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 44. Median annual salaries of doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 1995
\begin{tabular}{|c|c|c|c|}
\hline & & & Page 1 of 2 . \\
\hline Sector/field of doctorate & Total & Male & Female \\
\hline All sectors: & & & \\
\hline Total.. & \$60,200 & \$65,000 & \$50,000 \\
\hline Sciences... & 60,000 & 62,000 & 50,000 \\
\hline Computer and mathematical sciences..... & 60,000 & 61,000 & 53,000 \\
\hline Life and related sciences.................... & 57,000 & 60,000 & 49,000 \\
\hline Physical and related sciences...... & 66,000 & 68,000 & 56,000 \\
\hline Social and related sciences... & 55,500 & 60,000 & 50,000 \\
\hline Engineering... & 70,000 & 70,000 & 58,200 \\
\hline Universities and 4-year colleges: & & & \\
\hline Total................................................ & 52,300 & 55,000 & 44,000 \\
\hline Sciences.... & 51,000 & 54,000 & 44,000 \\
\hline Computer and mathematical sciences...... & 53,300 & 54,500 & 47,000 \\
\hline Life and related sciences... & 51,600 & 55,000 & 44,000 \\
\hline Physical and related sciences.. & 52,000 & 54,000 & 39,800 \\
\hline Social and related sciences.... & 50,000 & 54,000 & 44,700 \\
\hline Engineering...................................... & 61,900 & 63,000 & 52,000 \\
\hline Other educational institutions: & & & \\
\hline Total... & 45,000 & 47,000 & 43,000 \\
\hline Sciences.... & 45,000 & 48,000 & 43,000 \\
\hline Computer and mathematical sciences........ & 46,000 & 46,000 & 46,000 \\
\hline Life and related sciences.. & 42,000 & 45,000 & 39,000 \\
\hline Physical and related sciences... & 43,600 & 45,000 & 41,700 \\
\hline Social and related sciences.. & 48,000 & 52,000 & 45,000 \\
\hline Engineering....................................... & 37,000 & 37,000 & S \\
\hline Private-for-profit: & & & \\
\hline Total... & 75,000 & 75,000 & 64,500 \\
\hline Sciences. & 75,000 & 75,000 & 65,000 \\
\hline Computer and mathematical sciences.. & 76,800 & 76,800 & 78,000 \\
\hline Life and related sciences... & 72,000 & 75,000 & 65,000 \\
\hline Physical and related sciences....... & 75,000 & 75,000 & 65,000 \\
\hline Social and related sciences.... & 74,000 & 76,100 & 60,000 \\
\hline Engineering........... & 75,000 & 75,000 & 63,000 \\
\hline Self-employed: & & & \\
\hline Total. & 70,000 & 72,000 & 61,000 \\
\hline Sciences.. & 68,000 & 70,000 & 60,000 \\
\hline Computer and mathematical sciences.. & 55,000 & 70,000 & S \\
\hline Life and related sciences.. & 50,000 & 55,000 & 48,500 \\
\hline Physical and related sciences..................... & 52,500 & 50,000 & S \\
\hline Social and related sciences...... & 70,000 & 75,000 & 65,000 \\
\hline Engineering............................................. & 80,000 & 80,000 & S \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table.
}

Page 2 of 2
\begin{tabular}{|c|c|c|c|}
\hline Sector/field of doctorate & Total & Male & Female \\
\hline Private not-for-profit: & & & \\
\hline Total. & \$60,000 & \$64,000 & \$50,000 \\
\hline Sciences.. & 59,000 & 62,500 & 50,000 \\
\hline Computer and mathematical sciences........ & 80,000 & 82,000 & S \\
\hline Life and related sciences. & 58,000 & 60,000 & 51,000 \\
\hline Physical and related sciences..................... & 67,000 & 67,200 & 59,300 \\
\hline Social and related sciences......................... & 52,000 & 59,000 & 47,000 \\
\hline Engineering.. & 75,500 & 75,500 & S \\
\hline Federal government: & & & \\
\hline Total... & 66,000 & 67,000 & 60,000 \\
\hline Sciences.. & 65,000 & 66,400 & 60,000 \\
\hline Computer and mathematical sciences........... & 69,000 & 66,000 & S \\
\hline Life and related sciences......... & 62,000 & 64,400 & 55,000 \\
\hline Physical and related sciences...................... & 70,000 & 72,000 & 60,000 \\
\hline Social and related sciences... & 65,000 & 65,500 & 63,300 \\
\hline Engineering... & 70,000 & 70,000 & 63,000 \\
\hline State and local government: & & & \\
\hline Total................................ & 50,000 & 51,000 & 49,500 \\
\hline Sciences. & 50,000 & 51,000 & 49,500 \\
\hline Computer and mathematical sciences............ & S & S & S \\
\hline Life and related sciences.... & 50,000 & 50,000 & 50,000 \\
\hline Physical and related sciences..................... & 45,000 & 45,000 & S \\
\hline Social and related sciences... & 50,100 & 53,000 & 48,000 \\
\hline Engineering............................................. & 50,000 & 50,000 & S \\
\hline Other sector: & & & \\
\hline Total. & 95,000 & 95,000 & 56,000 \\
\hline Sciences............................................. & 92,000 & 97,000 & 60,000 \\
\hline Computer and mathematical sciences.......... & S & S & S \\
\hline Life and related sciences.. & 63,000 & 100,000 & S \\
\hline Physical and related sciences................... & 60,000 & 60,000 & S \\
\hline Social and related sciences........................ & 100,000 & 101,000 & 80,000 \\
\hline Engineering............................................. & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad S=\) Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|}
\hline Sector/occupation & Total & Male & Female \\
\hline All sectors: & & & \\
\hline Total........ & \$60,200 & \$65,000 & \$50,000 \\
\hline Scientists. & 55,000 & 59,000 & 47,000 \\
\hline Computer and mathematical scientists.... & 60,000 & 60,000 & 51,300 \\
\hline Life and related scientists..... & 53,300 & 56,000 & 44,000 \\
\hline Physical and related scientists... & 60,000 & 61,000 & 52,000 \\
\hline Social and related scientists.. & 53,000 & 56,000 & 47,500 \\
\hline Engineers... & 67,000 & 67,000 & 58,300 \\
\hline Non-S\&E occupations....... & 73,500 & 79,000 & 55,000 \\
\hline Universities and 4-year colleges: & & & \\
\hline Total.... & 52,300 & 55,000 & 44,000 \\
\hline Scientists.. & 50,000 & 52,000 & 41,500 \\
\hline Computer and mathematical scientists.... & 51,000 & 52,000 & 45,000 \\
\hline Life and related scientists. & 50,000 & 53,000 & 40,000 \\
\hline Physical and related scientists.. & 50,000 & 50,500 & 40,000 \\
\hline Social and related scientists.. & 49,200 & 51,000 & 42,500 \\
\hline Engineers.......................... & 60,000 & 60,000 & 52,000 \\
\hline Non-S\&E occupations................................. & 62,000 & 69,000 & 50,000 \\
\hline Other educational institutions: & & & \\
\hline Total... & 45,000 & 47,000 & 43,000 \\
\hline Scientists.. & 45,000 & 47,000 & 40,000 \\
\hline Computer and mathematical scientists. & 46,500 & 43,000 & S \\
\hline Life and related scientists... & 40,000 & 43,700 & 38,000 \\
\hline Physical and related scientists........... & 44,000 & 45,000 & S \\
\hline Social and related scientists.. & 46,000 & 50,000 & 43,000 \\
\hline Engineers.............................. & S & S & S \\
\hline Non-S\&E occupations................................. & 46,000 & 50,000 & 44,000 \\
\hline Private-for-profit: & & & \\
\hline Total... & 75,000 & 75,000 & 64,500 \\
\hline Scientists.. & 70,000 & 70,000 & 62,000 \\
\hline Computer and mathematical scientists............ & 70,000 & 70,000 & 68,000 \\
\hline Life and related scientists... & 67,000 & 70,000 & 63,000 \\
\hline Physical and related scientists.. & 70,000 & 71,500 & 62,000 \\
\hline Social and related scientists.... & 67,000 & 75,000 & 60,000 \\
\hline Engineers.................................................. & 70,000 & 70,000 & 63,000 \\
\hline Non-S\&E occupations................................. & 89,500 & 90,000 & 72,000 \\
\hline Self-employed: & & & \\
\hline Total..................................................... & 70,000 & 72,000 & 61,000 \\
\hline Scientists............................................... & 70,000 & 75,000 & 64,000 \\
\hline Computer and mathematical scientists............ & 65,000 & 65,000 & S \\
\hline Life and related scientists............................ & 40,000 & 40,000 & S \\
\hline Physical and related scientists....................... & 50,000 & 50,000 & S \\
\hline Social and related scientists....................... & 75,000 & 80,000 & 65,000 \\
\hline Engineers................................................ & 80,000 & 80,000 & S \\
\hline Non-S\&E occupations.................................. & 60,000 & 60,000 & 60,000 \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Page 2 of 2
\begin{tabular}{|c|c|c|c|}
\hline Sector/occupation & Total & Male & Female \\
\hline Private not-for-profit: & & & \\
\hline Total. & \$60,000 & \$64,000 & \$50,000 \\
\hline Scientists.. & 55,000 & 59,000 & 45,000 \\
\hline Computer and mathematical scientists............ & 76,000 & 76,500 & S \\
\hline Life and related scientists......... & 48,000 & 52,000 & 36,000 \\
\hline Physical and related scientists...................... & 63,100 & 64,000 & 59,500 \\
\hline Social and related scientists.............. & 50,000 & 54,000 & 45,000 \\
\hline Engineers.......................... & 70,000 & 70,000 & S \\
\hline Non-S\&E occupations................................. & 67,000 & 72,000 & 54,000 \\
\hline Federal government: & & & \\
\hline Total. & 66,000 & 67,000 & 60,000 \\
\hline Scientists. & 61,000 & 62,500 & 56,000 \\
\hline Computer and mathematical scientists... & 65,000 & 65,000 & S \\
\hline Life and related scientists.. & 55,000 & 58,000 & 51,000 \\
\hline Physical and related scientists... & 66,000 & 67,000 & 58,400 \\
\hline Social and related scientists.. & 60,800 & 61,000 & 60,000 \\
\hline Engineers................................................ & 65,900 & 67,000 & S \\
\hline Non-S\&E occupations.................................. & 79,000 & 80,000 & 70,000 \\
\hline State and local government: & & & \\
\hline Total........ & 50,000 & 51,000 & 49,500 \\
\hline Scientists. & 50,000 & 50,000 & 48,000 \\
\hline Computer and mathematical scientists............ & 48,000 & 48,000 & S \\
\hline Life and related scientists... & 46,000 & 49,000 & S \\
\hline Physical and related scientists...................... & 41,300 & 41,800 & S \\
\hline Social and related scientists.. & 50,000 & 51,000 & 48,600 \\
\hline Engineers............................................. & 49,000 & 49,000 & S \\
\hline Non-S\&E occupations................................. & 53,000 & 54,900 & 50,000 \\
\hline Other sector: & & & \\
\hline Total.. & 95,000 & 95,000 & 56,000 \\
\hline Scientists.. & 82,000 & 90,000 & 58,000 \\
\hline Computer and mathematical scientists........... & S & S & S \\
\hline Life and related scientists. & S & S & S \\
\hline Physical and related scientists.. & S & S & S \\
\hline Social and related scientists.... & 92,000 & 99,000 & 84,500 \\
\hline Engineers..................... & S & S & S \\
\hline Non-S\&E occupations................................. & 100,000 & 105,000 & S \\
\hline
\end{tabular}

KEY: \(\quad\) S = Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample. Median salaries were computed for full-time employed individuals only.

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Sector/field of doctorate} & \multicolumn{6}{|r|}{Page 1 of 2} \\
\hline & Total & White & Black & \begin{tabular}{l}
Asian or \\
Pacific Islander
\end{tabular} & Hispanic & \begin{tabular}{l}
Native \\
American
\end{tabular} \\
\hline \multicolumn{7}{|l|}{All sectors:} \\
\hline Total. & \$60,200 & \$62,000 & \$55,000 & \$60,000 & \$54,400 & \$52,000 \\
\hline Sciences. & 60,000 & 60,000 & 53,000 & 53,300 & 52,000 & 50,000 \\
\hline Computer and mathematical sciences........ & 60,000 & 62,000 & 57,000 & 55,000 & 49,900 & S \\
\hline Life and related sciences......................... & 57,000 & 58,000 & 51,000 & 49,000 & 52,500 & 56,000 \\
\hline Physical and related sciences.. & 66,000 & 68,500 & 59,000 & 60,000 & 60,200 & 73,000 \\
\hline Social and related sciences.. & 55,500 & 56,000 & 52,300 & 50,900 & 48,500 & 46,000 \\
\hline Engineering.................................... & 70,000 & 72,200 & 65,900 & 65,600 & 62,900 & S \\
\hline \multicolumn{7}{|l|}{Universities and 4-year colleges:} \\
\hline Total...................................... & 52,300 & 54,000 & 50,000 & 45,000 & 47,800 & 48,000 \\
\hline Sciences... & 51,000 & 52,300 & 48,000 & 42,000 & 45,000 & 46,200 \\
\hline Computer and mathematical sciences........ & 53,300 & 55,000 & 50,000 & 48,600 & 46,200 & S \\
\hline Life and related sciences... & 51,600 & 52,500 & 48,000 & 40,000 & 45,000 & 49,200 \\
\hline Physical and related sciences.................. & 52,000 & 54,000 & 47,300 & 40,000 & 50,500 & S \\
\hline Social and related sciences..................... & 50,000 & 50,900 & 48,000 & 46,900 & 43,000 & 46,000 \\
\hline Engineering.............................................. & 61,900 & 65,000 & 63,500 & 54,000 & 53,300 & S \\
\hline \multicolumn{7}{|l|}{Other educational institutions:} \\
\hline Total... & 45,000 & 45,000 & 50,000 & 40,000 & 45,500 & S \\
\hline Sciences............................................ & 45,000 & 45,400 & 50,000 & 40,000 & 45,000 & S \\
\hline Computer and mathematical sciences........ & 46,000 & 47,000 & S & S & S & S \\
\hline Life and related sciences.... & 42,000 & 43,000 & S & S & S & S \\
\hline Physical and related sciences.................. & 43,600 & 43,600 & S & S & S & S \\
\hline Social and related sciences..................... & 48,000 & 48,000 & 50,000 & S & S & S \\
\hline Engineering......................................... & 37,000 & 37,000 & S & S & S & S \\
\hline \multicolumn{7}{|l|}{Private-for-profit:} \\
\hline Total............... & 75,000 & 76,000 & 66,000 & 68,500 & 70,000 & 67,000 \\
\hline Sciences............................................ & 75,000 & 75,000 & 65,000 & 67,500 & 67,000 & 73,500 \\
\hline Computer and mathematical sciences........ & 76,800 & 80,000 & S & 71,000 & S & S \\
\hline Life and related sciences........ & 72,000 & 74,000 & 68,000 & 65,000 & 67,000 & S \\
\hline Physical and related sciences.................. & 75,000 & 76,500 & 65,000 & 67,900 & 69,800 & S \\
\hline Social and related sciences... & 74,000 & 75,000 & 65,000 & 66,000 & 60,000 & S \\
\hline Engineering............................................. & 75,000 & 78,000 & 70,000 & 70,000 & 72,000 & S \\
\hline Self-employed: & & & & & & \\
\hline Total. & 70,000 & 70,000 & 75,000 & 75,000 & 35,000 & S \\
\hline Sciences......................................... & 68,000 & 67,000 & 75,000 & 70,000 & 35,000 & S \\
\hline Computer and mathematical sciences........ & 55,000 & 52,000 & S & S & S & S \\
\hline Life and related sciences... & 50,000 & 50,000 & S & S & S & S \\
\hline Physical and related sciences.................. & 52,500 & 55,000 & S & S & S & S \\
\hline Social and related sciences..................... & 70,000 & 70,000 & 75,000 & 75,000 & 75,000 & S \\
\hline Engineering......................................... & 80,000 & 84,000 & S & 80,000 & S & S \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table.
}


KEY: \(\quad\) S = Median based on fewer than 200 weighted cases-suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|r|}{Page 1 of 2} \\
\hline Sector/occupation & Total & White & Black & \begin{tabular}{c|} 
Asian or \\
Pacific Islander
\end{tabular} & Hispanic & Native
American \\
\hline All sectors: & & & & & & \\
\hline Total... & \$60,200 & \$62,000 & \$55,000 & \$60,000 & \$54,400 & \$52,000 \\
\hline Scientists.. & 55,000 & 56,300 & 50,000 & 50,900 & 49,200 & 50,000 \\
\hline Computer and mathematical scientists...... & 60,000 & 60,000 & 55,000 & 60,000 & 48,000 & S \\
\hline Life and related scientists......... & 53,300 & 55,000 & 46,000 & 42,000 & 44,700 & 59,900 \\
\hline Physical and related scientists...... & 60,000 & 61,000 & 53,300 & 53,000 & 55,000 & S \\
\hline Social and related scientists.. & 53,000 & 54,000 & 50,000 & 50,000 & 46,000 & 48,000 \\
\hline Engineers.. & 67,000 & 68,600 & 65,000 & 64,000 & 57,000 & S \\
\hline Non-S\&E occupations.......................... & 73,500 & 75,000 & 60,000 & 72,000 & 70,000 & 50,000 \\
\hline Universities and 4-year colleges: & & & & & & \\
\hline Total.... & 52,300 & 54,000 & 50,000 & 45,000 & 47,800 & 48,000 \\
\hline Scientists...... & 50,000 & 50,900 & 45,000 & 42,000 & 44,000 & 46,200 \\
\hline Computer and mathematical scientists......... & 51,000 & 52,600 & 52,000 & 47,500 & 45,000 & S \\
\hline Life and related scientists...... & 50,000 & 52,000 & 44,500 & 35,000 & 42,000 & S \\
\hline Physical and related scientists... & 50,000 & 50,400 & 40,000 & 40,000 & 49,500 & S \\
\hline Social and related scientists... & 49,200 & 50,000 & 46,000 & 47,000 & 43,000 & 45,500 \\
\hline Engineers............................ & 60,000 & 61,200 & 64,000 & 54,000 & 53,300 & S \\
\hline Non-S\&E occupations............................... & 62,000 & 63,000 & 57,000 & 52,300 & 57,000 & S \\
\hline Other educational institutions: & & & & & & \\
\hline Total............... & 45,000 & 45,000 & 50,000 & 40,000 & 45,500 & S \\
\hline Scientists.. & 45,000 & 45,000 & 38,000 & 40,000 & 48,000 & S \\
\hline Computer and mathematical scientists....... & 46,500 & 50,200 & S & S & S & S \\
\hline Life and related scientists................. & 40,000 & 40,000 & S & S & S & S \\
\hline Physical and related scientists.... & 44,000 & 43,600 & S & S & S & S \\
\hline Social and related scientists... & 46,000 & 46,000 & S & S & S & S \\
\hline Engineers.............................. & S & S & S & S & S & S \\
\hline Non-S\&E occupations................... & 46,000 & 46,000 & 56,000 & S & S & S \\
\hline Private-for-profit: & & & & & & \\
\hline Total.......... & 75,000 & 76,000 & 66,000 & 68,500 & 70,000 & 67,000 \\
\hline Scientists.. & 70,000 & 70,000 & 65,000 & 65,000 & 61,000 & S \\
\hline Computer and mathematical scientists......... & 70,000 & 72,000 & S & 66,900 & 68,000 & S \\
\hline Life and related scientists.. & 67,000 & 69,000 & S & 62,000 & 62,000 & S \\
\hline Physical and related scientists................ & 70,000 & 72,000 & 68,000 & 64,000 & 62,000 & S \\
\hline Social and related scientists... & 67,000 & 70,000 & 60,000 & 70,000 & 60,000 & S \\
\hline Engineers......................................... & 70,000 & 73,000 & 66,000 & 67,000 & 70,000 & S \\
\hline Non-S\&E occupations........... & 89,500 & 90,000 & 82,000 & 80,000 & 82,000 & S \\
\hline Self-employed: & & & & & & \\
\hline Total... & 70,000 & 70,000 & 75,000 & 75,000 & 35,000 & S \\
\hline Scientists.. & 70,000 & 70,000 & 75,000 & S & S & S \\
\hline Computer and mathematical scientists......... & 65,000 & 70,000 & S & S & S & S \\
\hline Life and related scientists.... & 40,000 & 40,000 & S & S & S & S \\
\hline Physical and related scientists................. & 50,000 & 50,000 & S & S & S & S \\
\hline Social and related scientists.................. & 75,000 & 75,000 & 75,000 & S & S & S \\
\hline Engineers........................................... & 80,000 & 80,000 & S & 80,000 & S & S \\
\hline Non-S\&E occupations................................ & 60,000 & 60,000 & S & 70,000 & S & S \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.


KEY: \(\quad S=\) Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 48. Median annual salaries of doctoral scientists and engineers, by demographic characteristics, race/ethnicity, and sex: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Characteristics} & & & & & & & \multicolumn{3}{|r|}{Page 1 of 2} \\
\hline & \multicolumn{3}{|c|}{Total} & \multicolumn{3}{|c|}{White} & \multicolumn{3}{|r|}{Black} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total... & \$60,200 & \$65,000 & \$50,000 & \$62,000 & \$65,000 & \$50,000 & \$55,000 & \$57,000 & \$51,000 \\
\hline \multicolumn{10}{|l|}{Age:} \\
\hline Under 30. & 40,000 & 42,000 & 35,000 & 38,000 & 42,000 & 33,200 & S & S & S \\
\hline 30-34.. & 47,000 & 50,000 & 38,000 & 47,000 & 50,000 & 37,000 & 50,500 & 53,500 & 47,000 \\
\hline 35-39. & 53,800 & 55,900 & 46,000 & 54,000 & 56,900 & 46,000 & 50,000 & 49,700 & 56,000 \\
\hline 40-44. & 60,000 & 63,000 & 52,000 & 60,000 & 63,000 & 52,000 & 52,000 & 52,500 & 50,800 \\
\hline 45-49.. & 66,000 & 70,000 & 55,200 & 66,000 & 70,000 & 56,000 & 60,000 & 65,000 & 52,000 \\
\hline 50-54. & 70,000 & 73,600 & 55,000 & 71,100 & 75,000 & 55,000 & 60,000 & 61,000 & 57,000 \\
\hline 55-59. & 70,000 & 73,400 & 55,000 & 71,000 & 74,000 & 55,000 & 63,000 & 66,000 & S \\
\hline 60-64.. & 70,000 & 70,500 & 53,000 & 70,000 & 71,500 & 52,500 & 59,500 & 60,000 & S \\
\hline 65-75.. & 65,000 & 65,000 & 50,500 & 65,000 & 66,800 & 55,000 & 50,000 & 50,000 & S \\
\hline \multicolumn{10}{|l|}{Citizenship status:} \\
\hline U.S. total.. & 62,000 & 65,300 & 50,000 & 62,000 & 65,000 & 50,000 & 57,000 & 60,000 & 52,000 \\
\hline U.S. native... & 61,000 & 65,000 & 50,000 & 62,000 & 65,000 & 50,000 & 57,000 & 60,000 & 52,000 \\
\hline U.S. naturalized.. & 68,000 & 70,000 & 53,000 & 68,000 & 70,000 & 52,000 & 59,000 & 59,000 & 50,000 \\
\hline Non-U.S. total... & 50,000 & 51,000 & 40,000 & 54,800 & 56,000 & 42,200 & 45,000 & 45,600 & S \\
\hline Non-U.S., permanent resident... & 51,000 & 53,000 & 42,000 & 56,000 & 58,500 & 44,000 & 50,000 & 50,000 & S \\
\hline Non-U.S., temporary resident..... & 40,000 & 41,000 & 33,200 & 43,000 & 45,000 & 36,000 & 31,000 & 30,400 & S \\
\hline \multicolumn{10}{|l|}{Geographic division:} \\
\hline New England.............................. & 60,000 & 65,000 & 48,000 & 60,000 & 65,000 & 50,000 & 55,300 & 52,000 & S \\
\hline Middle Atlantic.. & 65,000 & 69,200 & 53,000 & 65,000 & 70,000 & 53,000 & 62,000 & 65,000 & 54,000 \\
\hline East North Central.. & 60,000 & 63,000 & 48,000 & 60,000 & 65,000 & 48,000 & 56,000 & 60,000 & 52,000 \\
\hline West North Central. & 55,000 & 56,000 & 46,000 & 55,000 & 57,500 & 46,000 & 47,300 & 47,300 & S \\
\hline South Atlantic... & 62,000 & 65,000 & 51,000 & 64,000 & 67,700 & 51,000 & 52,500 & 55,000 & 51,200 \\
\hline East South Central. & 56,000 & 59,000 & 49,000 & 58,200 & 60,000 & 50,000 & 44,000 & 47,000 & S \\
\hline West South Central. & 60,000 & 61,000 & 47,000 & 60,000 & 63,000 & 48,000 & 48,000 & 50,000 & 43,500 \\
\hline Mountain.. & 59,200 & 60,000 & 45,000 & 60,000 & 62,000 & 46,700 & 50,000 & S & S \\
\hline Pacific.... & 63,800 & 67,000 & 52,000 & 64,000 & 67,400 & 53,000 & 60,000 & 70,000 & 56,000 \\
\hline Other U.S. & 50,000 & 50,000 & S & 50,000 & 50,000 & S & S & S & S \\
\hline Place of birth: & & & & & & & & & \\
\hline U.S... & 61,000 & 65,000 & 50,000 & 62,000 & 65,000 & 50,000 & 57,000 & 60,000 & 52,000 \\
\hline Europe... & 62,000 & 65,000 & 48,000 & 62,200 & 65,700 & 48,800 & S & S & S \\
\hline Asia. & 60,000 & 60,600 & 48,000 & 60,000 & 60,000 & 50,000 & S & S & S \\
\hline North America... & 65,000 & 68,000 & 55,000 & 65,000 & 68,500 & 55,000 & S & S & S \\
\hline Central America. & 55,000 & 55,000 & S & S & S & S & S & S & S \\
\hline Carribean... & 60,000 & 65,000 & 45,000 & S & S & S & 60,000 & 60,000 & S \\
\hline South America.. & 57,000 & 60,000 & 50,500 & 64,000 & 68,000 & 59,000 & S & S & S \\
\hline Africa... & 55,000 & 56,000 & 43,000 & 62,000 & 64,000 & 40,000 & 50,000 & 50,000 & S \\
\hline Oceania............................... & 72,000 & 72,000 & S & 72,000 & 72,000 & S & S & S & S \\
\hline Unknown................................... & 66,600 & 66,600 & S & 66,600 & 66,600 & S & S & S & S \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Characteristics} & \multicolumn{3}{|l|}{Asian or Pacific Islander} & \multicolumn{3}{|c|}{Hispanic} & \multicolumn{3}{|c|}{Native American} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total... & \$60,000 & \$61,000 & \$48,000 & \$54,400 & \$58,000 & \$42,000 & \$52,000 & \$52,000 & \$49,000 \\
\hline Age: & & & & & & & & & \\
\hline Under 30... & 43,000 & 47,000 & 34,000 & 41,000 & S & S & S & S & S \\
\hline 30-34.. & 47,500 & 50,000 & 40,000 & 46,000 & 52,000 & 38,800 & S & S & S \\
\hline 35-39. & 53,000 & 55,000 & 45,000 & 48,000 & 51,000 & 40,000 & 48,000 & S & S \\
\hline 40-44. & 63,000 & 64,000 & 55,000 & 53,300 & 55,000 & 44,500 & S & S & S \\
\hline 45-49. & 70,000 & 71,000 & 57,000 & 60,000 & 61,000 & 43,000 & 50,000 & S & 48,000 \\
\hline 50-54. & 71,000 & 72,000 & 59,000 & 63,000 & 67,400 & 48,000 & 60,000 & 60,000 & S \\
\hline 55-59. & 72,000 & 73,000 & 50,000 & 72,000 & 72,400 & S & 46,500 & S & S \\
\hline 60-64.. & 70,000 & 71,000 & S & 67,000 & 70,000 & S & S & S & S \\
\hline 65-75. & 61,000 & 61,000 & S & S & S & S & S & S & S \\
\hline Citizenship status: & & & & & & & & & \\
\hline U.S. total.. & 68,000 & 70,000 & 55,000 & 55,000 & 60,000 & 43,000 & 52,000 & 54,000 & 49,000 \\
\hline U.S. native.. & 60,000 & 64,000 & 50,000 & 54,000 & 59,000 & 42,900 & 52,000 & 53,000 & 48,500 \\
\hline U.S. naturalized. & 70,000 & 70,700 & 55,000 & 61,000 & 64,000 & 44,000 & S & S & S \\
\hline Non-U.S. total.................... & 48,700 & 50,000 & 40,000 & 50,000 & 51,000 & 39,900 & S & S & S \\
\hline Non-U.S., permanent resident.... & 50,000 & 50,100 & 41,500 & 51,000 & 51,000 & 47,000 & S & S & S \\
\hline Non-U.S., temporary resident....... & 40,000 & 40,000 & 30,000 & 37,000 & 41,000 & S & S & S & S \\
\hline Geographic division: & & & & & & & & & \\
\hline New England........ & 55,000 & 63,000 & 36,500 & 60,000 & 62,000 & S & S & S & S \\
\hline Middle Atlantic.. & 65,000 & 67,000 & 53,000 & 59,000 & 60,000 & 54,100 & S & S & S \\
\hline East North Central. & 56,000 & 58,400 & 48,000 & 55,000 & 58,900 & 45,000 & 46,000 & S & S \\
\hline West North Central. & 50,000 & 51,000 & 48,000 & 53,300 & 55,000 & S & S & S & S \\
\hline South Atlantic........ & 57,000 & 58,000 & 50,000 & 56,000 & 59,000 & 44,000 & 65,000 & S & S \\
\hline East South Central. & 50,000 & 50,000 & 42,000 & 55,500 & 57,800 & S & 48,000 & S & S \\
\hline West South Central. & 58,000 & 60,000 & 45,000 & 52,000 & 56,000 & 40,000 & 46,500 & 46,500 & S \\
\hline Mountain... & 53,000 & 55,000 & 35,000 & 49,800 & 50,000 & S & S & S & S \\
\hline Pacific. & 65,000 & 67,500 & 50,700 & 50,000 & 55,000 & 40,000 & 50,000 & S & S \\
\hline Other U.S.. & 50,000 & 48,000 & S & S & S & S & S & S & S \\
\hline Place of birth: & & & & & & & & & \\
\hline U.S........ & 60,000 & 65,000 & 49,500 & 53,000 & 58,000 & 42,000 & 52,000 & 53,000 & 48,500 \\
\hline Europe..................................... & 57,000 & S & S & 49,200 & 53,000 & S & S & S & S \\
\hline Asia. & 60,000 & 61,000 & 48,000 & S & S & S & S & S & S \\
\hline North America. & S & S & S & S & S & S & S & S & S \\
\hline Central America..... & S & S & S & 55,000 & 55,000 & S & S & S & S \\
\hline Carribean. & S & S & S & 66,000 & 72,000 & S & S & S & S \\
\hline South America... & S & S & S & 55,000 & 57,000 & 47,800 & S & S & S \\
\hline Africa... & 52,000 & S & S & S & S & S & S & S & S \\
\hline Oceania. & S & S & S & S & S & S & S & S & S \\
\hline Unknown.. & S & S & S & S & S & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad S=\) Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Characteristics} & & & & & & & Page 1 of 2 \\
\hline & \multirow[b]{2}{*}{Total} & \multicolumn{3}{|c|}{U.S. Citizen} & \multicolumn{3}{|c|}{Non-U.S. Citizen} \\
\hline & & Total & Native & Naturalized & Total & Permanent resident & Temporary resident \\
\hline Total... & \multirow[t]{2}{*}{\$60,200} & \multirow[t]{2}{*}{\$62,000} & \multirow[t]{2}{*}{\$61,000} & \multirow[t]{2}{*}{\$68,000} & \multirow[t]{2}{*}{\$50,000} & \multirow[t]{2}{*}{\$51,000} & \multirow[t]{2}{*}{\$40,000} \\
\hline Sex: & & & & & & & \\
\hline Men. & 65,000 & 65,300 & 65,000 & 70,000 & 51,000 & 53,000 & 41,000 \\
\hline Women........................................... & \multirow[t]{2}{*}{50,000} & \multirow[t]{2}{*}{50,000} & \multirow[t]{2}{*}{50,000} & 53,000 & 40,000 & 42,000 & 33,200 \\
\hline Race/Ethnicity: & & & & & & & \\
\hline White... & 62,000 & 62,000 & 62,000 & 68,000 & 54,800 & 56,000 & 43,000 \\
\hline Black.. & 55,000 & 57,000 & 57,000 & 59,000 & 45,000 & 50,000 & 31,000 \\
\hline Asian or Pacific Islander................... & 60,000 & 68,000 & 60,000 & 70,000 & 48,700 & 50,000 & 40,000 \\
\hline Hispanic.... & 54,400 & 55,000 & 54,000 & 61,000 & 50,000 & 51,000 & 37,000 \\
\hline Native American.. & \multirow[t]{2}{*}{52,000} & \multirow[t]{2}{*}{52,000} & \multirow[t]{2}{*}{52,000} & \multirow[t]{2}{*}{S} & \multirow[t]{2}{*}{S} & \multirow[t]{2}{*}{S} & \multirow[t]{2}{*}{S} \\
\hline Age: & & & & & & & \\
\hline Under 30... & 40,000 & 38,000 & 39,000 & 35,000 & 43,000 & 44,800 & 43,000 \\
\hline 30-34.. & 47,000 & 47,000 & 46,000 & 52,600 & 47,500 & 50,000 & 40,000 \\
\hline 35-39.. & 53,800 & 55,000 & 54,000 & 61,000 & 49,600 & 50,000 & 39,000 \\
\hline 40-44.. & 60,000 & 60,000 & 60,000 & 66,000 & 53,000 & 54,000 & 40,000 \\
\hline 45-49. & 66,000 & 67,000 & 66,000 & 70,000 & 50,000 & 50,000 & S \\
\hline 50-54.. & 70,000 & 70,400 & 70,000 & 72,000 & 60,300 & 65,000 & S \\
\hline 55-59.. & 70,000 & 71,000 & 70,000 & 73,500 & 62,000 & 60,000 & S \\
\hline 60-64.. & 70,000 & 70,000 & 69,000 & 75,000 & 52,300 & 52,300 & S \\
\hline 65-75.. & \multirow[t]{2}{*}{65,000} & \multirow[t]{2}{*}{65,000} & \multirow[t]{2}{*}{65,000} & \multirow[t]{2}{*}{66,000} & \multirow[t]{2}{*}{57,000} & \multirow[t]{2}{*}{57,000} & \multirow[t]{2}{*}{S} \\
\hline Geographic division: & & & & & & & \\
\hline New England.......... & 60,000 & 62,000 & 60,000 & 69,000 & 45,000 & 45,000 & 40,000 \\
\hline Middle Atlantic.. & 65,000 & 67,000 & 65,000 & 73,400 & 55,000 & 56,000 & 40,000 \\
\hline East North Central. & 60,000 & 61,000 & 60,000 & 67,000 & 50,000 & 51,000 & 40,000 \\
\hline West North Central. & 55,000 & 55,000 & 55,000 & 60,000 & 42,000 & 43,000 & 37,500 \\
\hline South Atlantic. & 62,000 & 63,500 & 63,900 & 63,000 & 48,000 & 49,000 & 41,000 \\
\hline East South Central. & 56,000 & 58,000 & 58,000 & 60,000 & 40,000 & 40,200 & 34,000 \\
\hline West South Central.. & 60,000 & 60,000 & 60,000 & 69,200 & 47,500 & 50,000 & 43,000 \\
\hline Mountain.. & 59,200 & 60,000 & 60,000 & 60,000 & 48,000 & 50,000 & 40,000 \\
\hline Pacific... & 63,800 & 65,000 & 63,000 & 70,000 & 56,000 & 58,000 & 40,000 \\
\hline Other U.S. & \multirow[t]{2}{*}{50,000} & \multirow[t]{2}{*}{50,000} & \multirow[t]{2}{*}{48,000} & \multirow[t]{2}{*}{55,000} & \multirow[t]{2}{*}{36,000} & \multirow[t]{2}{*}{S} & \multirow[t]{2}{*}{30,000} \\
\hline Field of doctorate: & & & & & & & \\
\hline Sciences........................................... & 60,000 & 60,000 & 60,000 & 64,000 & 45,000 & 48,000 & 36,700 \\
\hline Computer and mathematical sciences...... & 60,000 & 62,500 & 63,000 & 60,000 & 50,000 & 51,700 & 41,000 \\
\hline Computer and information sciences......... & 65,000 & 66,000 & 66,000 & 67,000 & 60,000 & 60,000 & 60,000 \\
\hline Mathematical sciences... & 60,000 & 61,000 & 62,000 & 60,000 & 42,000 & 44,000 & 38,000 \\
\hline Life and related sciences....................... & 57,000 & 58,400 & 58,000 & 60,300 & 37,300 & 40,000 & 28,000 \\
\hline Agricultural and food sciences............... & 55,000 & 57,000 & 57,000 & 55,000 & 38,000 & 42,000 & 27,000 \\
\hline Biological and health sciences................ & 57,700 & 59,000 & 58,000 & 62,000 & 36,000 & 40,000 & 28,000 \\
\hline Environmental sciences... & 55,900 & 56,000 & 56,000 & 65,000 & S & S & S \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Characteristics} & & \multicolumn{6}{|r|}{Page 2 of 2} \\
\hline & \multirow[b]{2}{*}{Total} & \multicolumn{3}{|c|}{U.S. Citizen} & \multicolumn{3}{|c|}{Non-U.S. Citizen} \\
\hline & & Total & Native & Naturalized & Total & Permanent resident & Temporary resident \\
\hline Physical and related sciences. & \$66,000 & \$69,000 & \$68,500 & \$70,000 & \$47,300 & \$50,000 & \$34,000 \\
\hline Chemistry, except biochemistry........ & 68,000 & 70,000 & 70,000 & 70,000 & 50,000 & 52,000 & 32,000 \\
\hline Geology and oceanography... & 60,000 & 61,000 & 60,000 & 65,700 & 42,000 & 41,500 & S \\
\hline Physics and astronomy... & 68,000 & 70,000 & 70,000 & 70,000 & 45,000 & 50,000 & 34,000 \\
\hline Other physical sciences (incl. earth)........ & 50,000 & 50,700 & 50,700 & S & S & S & S \\
\hline Social and related sciences.................... & 55,500 & 56,000 & 56,000 & 59,000 & 48,000 & 48,000 & 45,000 \\
\hline Economics.. & 65,000 & 65,000 & 66,000 & 61,500 & 51,000 & 50,100 & 60,000 \\
\hline Political and related sciences. & 55,000 & 56,000 & 55,000 & 60,000 & 39,800 & 40,000 & S \\
\hline Psychology.... & 56,000 & 56,000 & 56,000 & 60,000 & 49,500 & 51,000 & S \\
\hline Sociology and anthropology..... & 50,000 & 50,000 & 50,000 & 56,000 & 42,000 & 43,000 & S \\
\hline Other social sciences........................... & 50,000 & 51,700 & 51,700 & 53,000 & 43,000 & 43,000 & S \\
\hline Engineering........................................ & 70,000 & 73,400 & 73,000 & 75,000 & 56,000 & 58,000 & 50,000 \\
\hline Aerospace/aeronautical........................ & 72,000 & 72,500 & 72,000 & 75,000 & 52,000 & 52,000 & S \\
\hline Chemical.. & 73,000 & 75,000 & 75,000 & 80,000 & 61,500 & 63,000 & 55,000 \\
\hline Civil. & 65,000 & 68,000 & 68,000 & 70,000 & 50,000 & 54,000 & S \\
\hline Electrical/computer.. & 75,000 & 78,000 & 79,600 & 76,700 & 62,000 & 63,000 & 55,000 \\
\hline Industrial... & 60,000 & 60,000 & 58,000 & 65,000 & 56,000 & 60,000 & S \\
\hline Mechanical. & 67,000 & 70,000 & 70,000 & 70,000 : & 55,000 & 55,000 & 53,000 \\
\hline Other engineering.. & 69,500 & 72,000 & 70,100 & 74,900 & 54,000 & 55,000 & 48,000 \\
\hline Place of birth: & & & & & & & \\
\hline U.S..... & 61,000 & 61,000 & 61,000 & 65,000 & 53,000 & 50,000 & S \\
\hline Europe.. & 62,000 & 68,000 & 55,000 & 70,000 & 51,100 & 53,800 & 40,000 \\
\hline Asia.. & 60,000 & 68,000 & 60,000 & 69,800 & 49,500 & 50,000 & 40,000 \\
\hline North America... & 65,000 & 67,700 & 56,000 & 68,300 & 63,100 & 67,000 & 45,000 \\
\hline Central America. & 55,000 & 60,000 & 62,000 & 55,000 & 45,000 & 45,000 & S \\
\hline Carribean. & 60,000 & 65,000 & S & 65,000 & 52,000 & 52,000 & S \\
\hline South America. & 57,000 & 61,000 & S & 60,500 & 55,000 & 57,000 & 45,000 \\
\hline Africa.. & 55,000 & 62,500 & 65,000 & 62,000 & 45,000 & 48,000 & 32,500 \\
\hline Oceania.. & 72,000 & 75,000 & S & S & 67,000 & 70,000 & S \\
\hline Unknown........................................... & 66,600 & 66,600 & 66,600 & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad\) S = Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample.
- Median salaries were computed for full-time employed individuals only.

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|r|}{Page 1 of 2} \\
\hline Characteristics & Total & Universities and 4-year colleges & \[
\begin{array}{|c|}
\hline \text { Other } \\
\text { educational } \\
\text { institutions } \\
\hline
\end{array}
\] & Private-forprofit & Self-
employed & Private not-for profit & Federal government & State \& local government & Other sector \\
\hline Total. & \$60,200 & \$52,300 & \$45,000 & \$75,000 & \$70,000 & \$60,000 & \$66,000 & \$50,000 & \$95,000 \\
\hline Sex: & & & & & & & & & \\
\hline Men. & 65,000 & 55,000 & 47,000 & 75,000 & 72,000 & 64,000 & 67,000 & 51,000 & 95,000 \\
\hline Women. & 50,000 & 44,000 & 43,000 & 64,500 & 61,000 & 50,000 & 60,000 & 49,500 & 56,000 \\
\hline Race/Ethnicity: & & & & & & & & & \\
\hline White.. & 62,000 & 54,000 & 45,000 & 76,000 & 70,000 & 60,000 & 67,000 & 50,000 & 92,000 \\
\hline Black. & 55,000 & 50,000 & 50,000 & 66,000 & 75,000 & 52,000 & 60,000 & 48,000 & S \\
\hline Hispanic. & 60,000 & 45,000 & 40,000 & 68,500 & 75,000 & 56,000 & 60,000 & 45,000 & 90,000 \\
\hline Asian/Pacific Islander & 54,400 & 47,800 & 45,500 & 70,000 & 35,000 & 57,000 & 62,000 & S & S \\
\hline Native American. & 52,000 & 48,000 & S & 67,000 & S & S & S & S. & S \\
\hline Age: & & & & & & & & & \\
\hline Under 30. & 40,000 & 31,000 & S & 58,400 & S & 32,600 & 40,000 & S & S \\
\hline 30-34. & 47,000 & 36,000 & 38,500 & 61,000 & 50,000 & 45,000 & 46,100 & 44,000 & S \\
\hline 35-39. & 53,800 & 44,200 & 40,000 & 69,500 & 68,000 & 50,000 & 55,000 & 45,000 & 80,000 \\
\hline 40-44. & 60,000 & 50,000 & 39,000 & 75,400 & 70,000 & 61,000 & 61,300 & 49,800 & 80,000 \\
\hline 45-49. & 66,000 & 56,500 & 45,000 & 81,300 & 75,000 & 71,000 & 68,000 & 53,700 & 100,000 \\
\hline 50-54. & 70,000 & 63,000 & 50,000 & 89,000 & 75,000 & 75,000 & 75,000 & 50,000 & 95,000 \\
\hline 55-59. & 70,000 & 64,800 & 52,000 & 86,400 & 65,000 & 75,000 & 79,000 & 55,000 & 110,000 \\
\hline 60-64. & 70,000 & 66,000 & 51,400 & 80,000 & 60,000 & 62,000 & 85,000 & 56,000 & S \\
\hline 65-75. & 65,000 & 67,900 & 45,000 & 67,700 & 40,000 & 53,000 & 74,000 & 58,600 & S \\
\hline Citizenship status: & & & & & & & & & \\
\hline U.S. total. & 62,000 & 54,000 & 45,400 & 75,100 & 70,000 & 60,000 & 66,000 & 50,800 & 95,000 \\
\hline U.S. native... & 61,000 & 53,800 & 45,400 & 75,000 & 70,000 & 60,000 & 66,000 & 50,800 & 98,000 \\
\hline U.S. naturalized. & 68,000 & 59,000 & 46,000 & 76,000 & 80,000 & 68,000 & 65,000 & 50,000 & 95,000 \\
\hline Non-U.S. total. & 50,000 & 40,300 & 37,000 & 62,000 & 45,000 & 42,000 & 39,000 & 42,000 & 80,000 \\
\hline Non-U.S., permanent resident...... & 51,000 & 42,900 & 37,000 & 63,000 & 50,000 & 46,000 & 39,000 & 42,200 & 75,000 \\
\hline Non-U.S., temporary resident.... & 40,000 & 32,000 & S & 58,000 & S & 31,500 & S & S & 80,000 \\
\hline Geographic division: & & & & & & & & & \\
\hline New England.. & 60,000 & 52,000 & 45,000 & 75,000 & 64,000 & 58,000 & 63,000 & 54,000 & S \\
\hline Middle Atlantic. & 65,000 & 55,000 & 56,000 & 76,000 & 75,000 & 59,500 & 62,000 & 54,000 & 95,000 \\
\hline East North Central. & 60,000 & 53,000 & 47,000 & 72,000 & 80,000 & 58,000 & 60,800 & 50,000 & S \\
\hline West North Central. & 55,000 & 50,000 & 40,000 & 68,000 & 63,000 & 52,000 & 59,000 & 48,000 & S \\
\hline South Atlantic. & 62,000 & 51,500 & 40,700 & 73,000 & 61,000 & 68,000 & 70,000 & 48,000 & 105,000 \\
\hline East South Central. & 56,000 & 52,300 & S & 69,500 & 70,000 & 50,000 & 64,200 & S & S \\
\hline West South Central.. & 60,000 & 50,000 & 39,000 & 76,000 & 65,000 & 57,000 & 63,300 & 45,000 & S \\
\hline Mountain.... & 59,200 & 52,000 & 42,000 & 72,000 & 60,000 & 54,000 & 62,000 & 48,000 & S \\
\hline Pacific... & 63,800 & 55,300 & 47,000 & 76,000 & 70,000 & 63,000 & 63,800 & 52,500 & S \\
\hline Other U.S..... & 50,000 & 40,000 & S & 77,000 & S & S & S & S & S \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Table 50. Median annual salaries of doctoral scientists and engineers, by demographic characteristics and sector of employment: 1995

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline Characteristics & Total & Universities and 4 -year colleges & Other educational institutions & \[
\begin{gathered}
\hline \text { Private- } \\
\text { for- } \\
\text { profit } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
\text { Self- } \\
\text { employed }
\end{gathered}
\] & Private not-forprofit & Federal government & State \& local government & Other sector \\
\hline Place of birth: & & & & & & & & & \\
\hline U.S.. & \$61,000 & \$53,900 & \$45,400 & \$75,500 & \$70,000 & \$60,000 & \$66,500 & \$50,800 & \$95,000 \\
\hline Europe.. & 62,000 & 55,000 & 49,000 & 75,000 & 70,000 & 60,000 & 63,000 & 41,000 & S \\
\hline Asia. & 60,000 & 47,000 & 39,000 & 69,300 & 70,000 & 56,000 & 60,000 & 47,000 & 86,000 \\
\hline North America.. & 65,000 & 56,000 & S & 78,000 & S & S & S & S & S \\
\hline Central America.. & 55,000 & 51,700 & S & 70,000 & S & S & S & S & S \\
\hline Carribean... & 60,000 & 49,000 & S & 68,000 & S & S & S & S & S \\
\hline South America... & 57,000 & 48,000 & S & 65,000 & S & S & S & S & S \\
\hline Africa. & 55,000 & 48,000 & S & 70,000 & S & S & S & 45,000 & S \\
\hline Oceania. & 72,000 & 67,000 & S & 90,000 & S & S & S & S & S \\
\hline Unknown... & 66,600 & S & S & S & S & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad \mathrm{S}=\) Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
Table 51. Median annual salaries of doctoral scientists and engineers, by demographic characteristics and
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Characteristics} & \multirow[t]{2}{*}{Total} & \multicolumn{5}{|l|}{Research \& development} & \multirow[t]{2}{*}{Teaching} & \multirow[t]{2}{*}{Management, sales, and administration} & \multirow[t]{2}{*}{Computer applications} & \multirow[t]{2}{*}{Professional services} & \multirow[t]{2}{*}{Other activities} \\
\hline & & Total & Applied research & \[
\begin{gathered}
\text { Basic } \\
\text { research }
\end{gathered}
\] & Development & Design & & & & & \\
\hline Total. & \$60,200 & \$63,000 & \$65,000 & \$52,000 & \$72,000 & \$71,500 & \$50,000 & \$79,000 & \$64,000 & \$60,000 & \$63,000 \\
\hline Sex: & & & & & & & & & & & \\
\hline Men... & 65,000 & \multirow[t]{2}{*}{65,000
51,000} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 67,000 \\
& 57,000
\end{aligned}
\]} & \multirow[t]{2}{*}{46,200} & \multirow[t]{2}{*}{73,000
62,00} & \multirow[t]{2}{*}{72,000
63,000} & 51,000 & \multirow[t]{2}{*}{82,000
65,00} & 65,000 & 66,000 & 65,000 \\
\hline Women.... & 50,000 & & & & & & 43,000 & & 52,000 & 50,500 & 54,500 \\
\hline Race/Ethnicity: & & & & & & & & & & & \\
\hline White.... & 62,000 & 65,000 & 66,000 & 54,900 & 74,900 & 72,000 & 50,000 & & 65,000 & 60,000 & 65,000 \\
\hline Black... & 55,000 & 56,000 & 53,300 & 51,000 & 66,000 & S & 46,000 & \[
\begin{aligned}
& 80,000 \\
& 65,900
\end{aligned}
\] & 45,000 & 58,000 & \multirow[t]{2}{*}{\[
\begin{aligned}
& 50,000 \\
& 60,000
\end{aligned}
\]} \\
\hline Asian or Pacific Islander.... & 60,000 & 60,000 & 60,000 & 40,000 & 67,500 & 70,000 & 48,900 & 78,000 & 61,000 & 58,000 & \\
\hline Hispanic. & \multirow[t]{2}{*}{54,400
52,000} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 55,000 \\
& 65,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 57,000 \\
& 65,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{gathered}
48,500 \\
\mathrm{~S}
\end{gathered}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
65,000 \\
\mathrm{~S}
\end{array}
\]} & \multirow[t]{2}{*}{S} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 45,000 \\
& 46,200
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{gathered}
74,300 \\
\mathrm{~S}
\end{gathered}
\]} & \multirow[t]{2}{*}{\[
\begin{array}{r}
67,000 \\
\mathrm{~S}
\end{array}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 55,000 \\
& 50,000
\end{aligned}
\]} & \multirow[t]{2}{*}{57,000
S} \\
\hline Native American... & & & & & & & & & & & \\
\hline \multicolumn{12}{|l|}{Age:} \\
\hline Under 30... & \multirow[t]{2}{*}{\[
\begin{aligned}
& 40,000 \\
& 47,000
\end{aligned}
\]} & 40,000 & 50,000 & 29,000 & 55,000 & 58,000 & 37,000 & 50,000 & 54,000 & 33,300 & S \\
\hline 30-34... & & 48,500 & 54,100 & 34,000 & 60,800 & 60,000 & 38,000 & 63,000 & 57,000 & 42,000 & \multirow[t]{2}{*}{\[
\begin{aligned}
& 46,000 \\
& 52,000
\end{aligned}
\]} \\
\hline 35-39... & 53,800 & 56,000 & 60,000 & 34,000
45,00 & 67,000 & 66,000 & 42,000 & 68,000 & 60,000 & 54,000 & \\
\hline 40-44... & \multirow[t]{2}{*}{66,000} & 63,400 & 64,000 & \multirow[t]{2}{*}{\[
\begin{aligned}
& 56,200 \\
& 64,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 73,500 \\
& 81,500
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 75,000 \\
& 78,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 45,000 \\
& 49,700
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 75,000 \\
& 80,000
\end{aligned}
\]} & \multirow[t]{2}{*}{66,000
70,000} & 60,000 & 60,000 \\
\hline 45-49. & & 70,000 & 70,000 & & & & & & & 66,000 & 70,000 \\
\hline 50-54.. & 70,000 & 77,500 & 75,000 & 77,000 & 85,000 & 78,600 & 53,700 & 88,000 & 70,000 & 67,100 & 65,000 \\
\hline 55-59 & \multirow[t]{3}{*}{\[
\begin{aligned}
& 70,000 \\
& 70,000 \\
& 65,000
\end{aligned}
\]} & 79,000 & 79,000 & 75,000 & 85,000 & 80,000 & 56,000 & 90,000 & 72,000 & 68,000 & \multirow[t]{2}{*}{75,500
65,000} \\
\hline 60-64. & & \multirow[t]{2}{*}{\[
\begin{aligned}
& 80,000 \\
& 75,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 80,000 \\
& 70,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 80,000 \\
& 78,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 85,000 \\
& 70,600
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 75,000 \\
& 65,000
\end{aligned}
\]} & 60,000 & 82,000 & 65,000 & 59,500 & \\
\hline 65-75........ & & & & & & & 60,000 & 72,000 & 48,000 & 50,500 & 67,000 \\
\hline Citizenship status: & \multirow[t]{2}{*}{62,000} & & & & & & & & & & \\
\hline U.S. total... & & 65,000 & 67,000 & 55,000 & 74,000 & 74,000 & 50,000 & 79,800 & 66,000 & 60,000 & 65,000 \\
\hline U.S. native.... & \multirow[t]{2}{*}{61,000
68,000} & 65,000 & 66,000 & 55,000 & 74,400 & 72,000 & \multirow[t]{2}{*}{\[
\begin{aligned}
& 50,000 \\
& 54,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 79,000 \\
& 82,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 65,000 \\
& 70,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 60,000 \\
& 70,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 64,200 \\
& 70,000
\end{aligned}
\]} \\
\hline U.S. naturalized... & & 70,000 & 70,000 & 60,000 & 74,000 & 75,000 & & & & & \\
\hline Non-U.S. total... & \multirow[t]{2}{*}{\[
\begin{aligned}
& 50,000 \\
& 51,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 50,000 \\
& 52,000
\end{aligned}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& 53,000 \\
& 55,000
\end{aligned}
\]} & \multirow[t]{3}{*}{\[
\begin{array}{r}
37,000 \\
40,000 \\
30,000 \\
\hline
\end{array}
\]} & 62,000 & 61,100 & 44,000 & 64,000 & 55,000 & 48,000 & 50,000 \\
\hline Non-U.S., permanent resident... & & & & & 63,000 & 62,000 & 45,300 & 65,000 & 55,000 & 48,000 & 52,000 \\
\hline Non-U.S., temporary resident.... & 40,000 & 38,000 & 40,000 & & 54,600 & S & 40,000 & 60,000 & 54,000 & S & S \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{Characteristics} & & & & & & & \multirow[t]{3}{*}{Teaching} & \multirow[t]{3}{*}{Management, sales, and administration} & \multirow[t]{3}{*}{Computer applications} & \multirow[t]{3}{*}{Professional services} & Page 2 of 2 \\
\hline & \multirow[t]{2}{*}{Total} & \multicolumn{5}{|l|}{Research \& development} & & & & & \\
\hline & & Total & Applied research & \[
\begin{gathered}
\text { Basic } \\
\text { research }
\end{gathered}
\] & Development & Design & & & & & Other activities \\
\hline Geographic division: & & & & & & & & & & & \\
\hline New England........... & \$60,000 & \$61,000 & \$67,000 & \$46,000 & \$70,000 & \$62,500 & \$51,000 & \$78,500 & \$68,000 & \$56,000 & \$65,000 \\
\hline Middle Atlantic. & 65,000 & 67,200 & 69,000 & 56,000 & 75,000 & 72,700 & 53,000 & 84,000 & 70,000 & 60,000 & 65,400 \\
\hline East North Central. & 60,000 & 62,700 & 65,000 & 54,000 & 70,000 & 70,000 & 50,000 & 77,200 & 58,800 & 61,400 & 51,800 \\
\hline West North Central. & 55,000 & 59,000 & 60,000 & 50,000 & 66,000 & 69,000 & 45,000 & 74,000 & 55,000 & 56,000 & 43,000 \\
\hline South Atlantic. & 62,000 & 62,400 & 64,000 & 53,000 & 73,600 & 71,500 & 46,900 & 80,000 & 62,500 & 60,000 & 75,000 \\
\hline East South Central. & 56,000 & 58,000 & 60,000 & 53,000 & 62,000 & 68,000 & 48,000 & 72,000 & 50,000 & 65,000 & 58,000 \\
\hline West South Central. & 60,000 & 63,800 & 65,000 & 52,000 & 70,000 & 75,000 & 46,200 & 78,000 & 60,800 & 60,000 & 70,000 \\
\hline Mountain. & 59,200 & 60,000 & 63,000 & 49,000 & 70,000 & 67,400 & 49,900 & 75,000 & 60,000 & 60,000 & 50,000 \\
\hline Pacific.. & 63,800 & 65,000 & 67,400 & 51,600 & 75,100 & 76,000 & 52,800 & 80,000 & 66,000 & 60,000 & 55,500 \\
\hline Other U.S. & 50,000 & 45,000 & 35,000 & 50,000 & S & S & S & 60,000 & S & S & S \\
\hline \multicolumn{12}{|l|}{Place of birth:} \\
\hline U.S.. & 61,000 & 65,000 & 66,000 & 55,000 & 74,900 & 72,000 & 50,000 & 79,000 & 65,000 & 60,000 & 64,000 \\
\hline Europe... & 62,000 & 60,000 & 62,500 & 50,000 & 72,500 & 75,000 & 53,000 & 80,300 & 66,000 & 62,300 & 67,000 \\
\hline Asia. & 60,000 & 60,000 & 60,000 & 40,000 & 68,000 & 70,000 & 49,500 & 78,000 & 61,000 & 60,000 & 60,000 \\
\hline North America. & 65,000 & 64,500 & 65,000 & 55,000 & S & S & 55,000 & 85,000 & S & 75,000 & S \\
\hline Central America.. & 55,000 & 54,000 & 54,000 & 48,000 & S & S & 53,300 & S & S & S & S \\
\hline Carribean... & 60,000 & 62,000 & 65,000 & S & S & S & 48,000 & 75,000 & S & 60,000 & S \\
\hline South America. & 57,000 & 62,000 & 57,000 & 64,000 & 66,000 & S & 46,200 & 68,000 & S & S & S \\
\hline Africa. & 55,000 & 59,000 & 60,000 & 51,000 & 58,000 & S & 47,000 & 65,900 & 61,000 & S & S \\
\hline Oceania... & 72,000 & 60,000 & 67,000 & S & S & S & S & S & S & S & S \\
\hline Unknown.. & 66,600 & S & S & S & S & S & S & S & S & S & S \\
\hline
\end{tabular}
KEY: \(\quad S=\) Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.
All numbers in the table are estimates derived from a sample. Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients


See explanatory information and SOURCE at end of table.

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Characteristics & Total & Sciences & Computer and mathematical sciences & Life and related sciences & Physical and related sciences & Social and related sciences & Engineering \\
\hline Place of birth: & & & & & & & \\
\hline U.S. & \$61,000 & \$60,000 & \$63,000 & \$58,000 & \$68,700 & \$56,000 & \$73,200 \\
\hline Europe..... & 62,000 & 60,000 & 52,000 & 58,000 & 67,400 & 57,000 & 70,000 \\
\hline Asia... & 60,000 & 53,000 & 55,000 & 49,800 & 60,000 & 50,000 & 65,000 \\
\hline North America... & 65,000 & 64,000 & 60,000 & 60,000 & 69,600 & 63,000 & 83,000 \\
\hline Central America... & 55,000 & 53,300 & S & 51,000 & 55,000 & 53,000 & 62,000 \\
\hline Carribean... & 60,000 & 60,000 & S & 58,000 & 62,000 & 60,000 & 70,000 \\
\hline South America.. & 57,000 & 57,000 & 46,200 & 54,400 & 61,000 & 62,000 & 57,000 \\
\hline Africa.... & 55,000 & 50,000 & 62,000 & 47,000 & 54,000 & 48,000 & 65,000 \\
\hline Oceania... & 72,000 & 72,000 & S & S & S & 60,000 & S \\
\hline Unknown................. & 66,600 & 60,000 & S & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad S=\) Median based on fewer than 200 weighted cases-suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Characteristics} & \multirow[b]{2}{*}{Total} & \multirow[b]{2}{*}{Scientists} & \multirow[b]{2}{*}{\[
\begin{array}{|c|}
\hline \text { Computer and } \\
\text { mathematical } \\
\text { scientists }
\end{array}
\]} & \multirow[b]{2}{*}{Life and related scientists} & \multirow[b]{2}{*}{\[
\begin{array}{|c|}
\hline \text { Physical and } \\
\text { related } \\
\text { scientists }
\end{array}
\]} & \multirow[b]{2}{*}{Social and related scientists} & \multirow[b]{2}{*}{Engineers} & Page 1 of 2 \\
\hline & & & & & & & & Non-S\&E occupations \\
\hline Total. & \$60,200 & \$55,000 & \$60,000 & \$53,300 & \$60,000 & \$53,000 & \$67,000 & \$73,500 \\
\hline Sex: & & & & & & & & \\
\hline Men.. & 65,000 & 59,000 & 60,000 & 56,000 & 61,000 & 56,000 & 67,000 & 79,000 \\
\hline Women. & 50,000 & 47,000 & 51,300 & 44,000 & 52,000 & 47,500 & 58,300 & 55,000 \\
\hline \multicolumn{9}{|l|}{Race/Ethnicity:} \\
\hline White. & 62,000 & 56,300 & 60,000 & 55,000 & 61,000 & 54,000 & 68,600 & 75,000 \\
\hline Black. & 55,000 & 50,000 & 55,000 & 46,000 & 53,300 & 50,000 & 65,000 & 60,000 \\
\hline Asian or Pacific Islander. & 60,000 & 50,900 & 60,000 & 42,000 & 53,000 & 50,000 & 64,000 & 72,000 \\
\hline Hispanic. & 54,400 & 49,200 & 48,000 & 44,700 & 55,000 & 46,000 & 57,000 & 70,000 \\
\hline Native American. & 52,000 & 50,000 & S & 59,900 & S & 48,000 & S & 50,000 \\
\hline \multicolumn{9}{|l|}{Age:} \\
\hline Under 30. & 40,000 & 35,000 & 43,000 & 27,000 & 36,000 & 40,000 & 57,500 & 40,000 \\
\hline 30-34. & 47,000 & 40,000 & 51,000 & 32,000 & 45,000 & 40,000 & 58,000 & 52,000 \\
\hline 35-39. & 53,800 & 50,000 & 58,000 & 45,500 & 55,000 & 45,000 & 60,000 & 63,000 \\
\hline 40-44. & 60,000 & 55,000 & 60,000 & 55,000 & 61,000 & 52,000 & 68,000 & 70,000 \\
\hline 45-49. & 66,000 & 60,000 & 60,000 & 60,000 & 69,300 & 55,000 & 76,000 & 77,800 \\
\hline 50-54. & 70,000 & 63,500 & 65,000 & 65,000 & 70,000 & 60,000 & 77,000 & 81,000 \\
\hline 55-59. & 70,000 & 65,000 & 60,000 & 65,500 & 72,400 & 60,000 & 76,700 & 82,000 \\
\hline 60-64. & 70,000 & 65,000 & 65,000 & 68,000 & 70,000 & 60,000 & 75,000 & 75,000 \\
\hline 65-75. & 65,000 & 61,000 & 50,000 & 67,900 & 56,000 & 62,000 & 80,000 & 66,000 \\
\hline \multicolumn{9}{|l|}{Year of doctorate:} \\
\hline 1993-94 graduates.. & 38,600 & 35,000 & 48,000 & 28,000 & 37,000 & 37,500 & 51,700 & 42,400 \\
\hline 1990-92 graduates.. & 48,000 & 43,000 & 52,000 & 36,000 & 46,000 & 42,100 & 58,000 & 50,000 \\
\hline 1985-89 graduates... & 55,000 & 51,600 & 60,000 & 50,000 & 55,000 & 50,000 & 65,000 & 61,000 \\
\hline 1980-84 graduates.. & 63,000 & 59,100 & 60,000 & 57,800 & 64,000 & 56,000 & 70,000 & 71,300 \\
\hline 1970-79 graduates.. & 70,000 & 64,000 & 65,000 & 65,000 & 70,000 & 60,000 & 78,000 & 82,000 \\
\hline 1960-69 graduates...................... & 75,000 & 69,500 & 66,000 & 70,000 & 73,000 & 64,900 & 80,000 & 92,000 \\
\hline Pre-1960 graduates..................... & 75,000 & 70,000 & 50,000 & 75,000 & 65,000 & 69,100 & 80,000 & 90,000 \\
\hline \multicolumn{9}{|l|}{Citizenship status:} \\
\hline U.S. total. & 62,000 & 57,000 & 60,000 & 55,000 & 61,600 & 53,500 & 70,000 & 75,000 \\
\hline U.S. native... & 61,000 & 56,000 & 60,000 & 55,000 & 61,000 & 53,300 & 69,000 & 74,000 \\
\hline U.S. naturalized. & 68,000 & 61,000 & 62,000 & 59,000 & 65,000 & 55,000 & 70,000 & 78,000 \\
\hline Non-U.S. total............................ & 50,000 & 45,000 & 52,000 & 33,000 & 45,000 & 48,000 & 55,000 & 55,000 \\
\hline Non-U.S., permanent resident....... & 51,000 & 48,000 & 54,000 & 35,000 & 50,000 & 49,900 & 57,000 & 56,000 \\
\hline Non-U.S., temporary resident........ & 40,000 & 37,500 & 45,000 & 28,000 & 35,000 & 43,000 & 50,000 & 52,000 \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Table 53. Median annual salaries of doctoral scientists and engineers, by demographic characteristics and broad occupation: 1995
\begin{tabular}{l|r|r|r|r|r|r|r|r}
\hline
\end{tabular}

KEY: \(\quad S=\) Median based on fewer than 200 weighted cases-suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Characteristics} & & & & & & & \multicolumn{3}{|r|}{Page 1 of 2} \\
\hline & \multicolumn{3}{|c|}{Total} & \multicolumn{3}{|c|}{White} & \multicolumn{3}{|r|}{Black} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total. & \$60,200 & \$65,000 & \$50,000 & \$62,000 & \$65,000 & \$50,000 & \$55,000 & \$57,000 & \$51,000 \\
\hline Year of doctorate: & & & & & & & & & \\
\hline 1993-94 graduates. & 38,600 & 41,000 & 35,000 & 39,000 & 42,000 & 35,000 & 41,000 & 44,000 & 41,000 \\
\hline 1990-92 graduates. & 48,000 & 50,000 & 43,000 & 47,000 & 50,000 & 42,400 & 48,000 & 48,500 & 48,000 \\
\hline 1985-89 graduates. & 55,000 & 58,000 & 50,000 & 55,000 & 58,000 & 50,000 & 52,000 & 52,000 & 51,000 \\
\hline 1980-84 graduates. & 63,000 & 65,000 & 56,000 & 63,000 & 65,000 & 56,000 & 58,000 & 58,000 & 57,000 \\
\hline 1970-79 graduates.. & 70,000 & 72,000 & 60,000 & 70,000 & 72,000 & 60,000 & 65,000 & 66,000 & 60,000 \\
\hline 1960-69 graduates. & 75,000 & 76,800 & 62,100 & 75,000 & 77,000 & 62,100 & 65,000 & 65,000 & S \\
\hline Pre-1960 graduates.. & 75,000 & 75,000 & 73,500 & 75,000 & 75,000 & 78,000 & S & S & S \\
\hline Sector of employment: & & & & & & & & & \\
\hline Universities and 4-year colleges. & 52,300 & 55,000 & 44,000 & 54,000 & 57,000 & 45,000 & 50,000 & 50,000 & 46,000 \\
\hline Other educational institutions... & 45,000 & 47,000 & 43,000 & 45,000 & 48,000 & 42,000 & 50,000 & 41,000 & 50,000 \\
\hline Private-for-profit.. & 75,000 & 75,000 & 64,500 & 76,000 & 78,000 & 65,000 & 66,000 & 67,000 & 65,000 \\
\hline Self-employed. & 70,000 & 72,000 & 61,000 & 70,000 & 72,000 & 60,000 & 75,000 & S & S \\
\hline Private not-for-profit. & 60,000 & 64,000 & 50,000 & 60,000 & 65,000 & 50,000 & 52,000 & 52,000 & S \\
\hline Federal government.. & 66,000 & 67,000 & 60,000 & 67,000 & 68,000 & 60,000 & 60,000 & 60,000 & 61,500 \\
\hline State and local government... & 50,000 & 51,000 & 49,500 & 50,000 & 51,100 & 50,000 & 48,000 & 48,000 & S \\
\hline Other sector... & 95,000 & 95,000 & 56,000 & 92,000 & 100,000 & 58,000 & S & S & S \\
\hline Primary work activity: & & & & & & & & & \\
\hline R\&D. & 63,000 & 65,000 & 51,000 & 65,000 & 67,000 & 52,000 & 56,000 & 58,000 & 55,000 \\
\hline Applied research.. & 65,000 & 67,000 & 57,000 & 66,000 & 68,800 & 58,000 & 53,300 & 53,500 & 52,000 \\
\hline Basic research. & 52,000 & 56,200 & 40,000 & 54,900 & 60,000 & 42,000 & 51,000 & 52,500 & S \\
\hline Development. & 72,000 & 73,000 & 62,000 & 74,900 & 75,000 & 62,500 & 66,000 & 66,000 & S \\
\hline Design.... & 71,500 & 72,000 & 63,000 & 72,000 & 72,000 & 70,000 & S & S & S \\
\hline Teaching.... & 50,000 & 51,000 & 43,000 & 50,000 & 51,700 & 43,000 & 46,000 & 47,300 & 43,700 \\
\hline Management, sales, and administration.... & 79,000 & 82,000 & 65,000 & 80,000 & 83,000 & 65,000 & 65,900 & 70,000 & 60,000 \\
\hline Computer applications... & 64,000 & 65,000 & 52,000 & 65,000 & 68,000 & 50,000 & 45,000 & 45,000 & S \\
\hline Professional services.. & 60,000 & 66,000 & 50,500 & 60,000 & 66,000 & 51,000 & 58,000 & 60,000 & 56,000 \\
\hline Other activities..... & 63,000 & 65,000 & 54,500 & 65,000 & 66,500 & 54,000 & 50,000 & S & S \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Page 2 of 2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Characteristics} & \multicolumn{3}{|l|}{Asian or Pacific Islander} & \multicolumn{3}{|c|}{Hispanic} & \multicolumn{3}{|c|}{Native American} \\
\hline & Total & Male & Female & Total & Male & Female & Total & Male & Female \\
\hline Total. & \$60,000 & \$61,000 & \$48,000 & \$54,400 & \$58,000 & \$42,000 & \$52,000 & \$52,000 & \$49,000 \\
\hline Year of doctorate: & & & & & & & & & \\
\hline 1993-94 graduates. & 38,000 & 40,000 & 33,000 & 39,900 & 41,000 & 36,000 & S & S & S \\
\hline 1990-92 graduates.. & 50,000 & 50,000 & 45,000 & 46,000 & 50,000 & 40,000 & S & S & S \\
\hline 1985-89 graduates.. & 60,000 & 61,900 & 50,000 & 54,000 & 55,000 & 46,000 & 43,700 & S & S \\
\hline 1980-84 graduates. & 68,000 & 69,600 & 60,000 & 56,000 & 60,000 & 51,000 & 58,000 & 58,000 & S \\
\hline 1970-79 graduates. & 75,000 & 75,000 & 63,000 & 62,900 & 66,000 & 48,300 & 60,000 & 60,000 & S \\
\hline 1960-69 graduates.. & 75,400 & 78,000 & 63,300 & 80,000 & 85,000 & S & S & S & S \\
\hline Pre-1960 graduates.. & 70,600 & 70,600 & S & S & S & S & S & S & S \\
\hline Sector of employment: & & & & & & & & & \\
\hline Universities and 4-year colleges.... & 45,000 & 48,000 & 38,000 & 47,800 & 50,000 & 39,000 & 48,000 & 46,500 & 48,000 \\
\hline Other educational institutions.. & 40,000 & 40,000 & S & 45,500 & S & S & S & S & S \\
\hline Private-for-profit... & 68,500 & 70,000 & 60,000 & 70,000 & 70,000 & 62,000 & 67,000 & 73,500 & S \\
\hline Self-employed... & 75,000 & 80,000 & S & 35,000 & 35,000 & S & S & S & S \\
\hline Private not-for-profit. & 56,000 & 60,000 & 40,000 & 57,000 & 57,000 & 52,500 & S & S & S \\
\hline Federal government. & 60,000 & 61,000 & 57,000 & 62,000 & 63,000 & S & S & S & S \\
\hline State and local government.... & 45,000 & 45,000 & 47,000 & S & S & S & S & S & S \\
\hline Other sector... & 90,000 & 95,000 & S & S & S & S & S & S & S \\
\hline Primary work activity: & & & & & & & & & \\
\hline R\&D. & 60,000 & 61,000 & 48,000 & 55,000 & 60,000 & 42,000 & 65,000 & 67,000 & S \\
\hline Applied research.... & 60,000 & 62,000 & 56,000 & 57,000 & 60,000 & 46,000 & 65,000 & 67,000 & S \\
\hline Basic research. & 40,000 & 45,000 & 34,000 & 48,500 & 54,000 & 34,000 & S & S & S \\
\hline Development.. & 67,500 & 69,000 & 60,000 & 65,000 & 65,000 & S & S & S & S \\
\hline Design...... & 70,000 & 70,000 & S & S & S & S & S & S & S \\
\hline Teaching............................................. & 48,900 & 50,000 & 41,000 & 45,000 & 49,800 & 39,200 & 46,200 & 46,200 & S \\
\hline Management, sales, and administration..... & 78,000 & 80,000 & 60,000 & 74,300 & 75,000 & 60,000 & S & S & S \\
\hline Computer applications...................... & 61,000 & 61,000 & 55,000 & 67,000 & 67,000 & S & S & S & S \\
\hline Professional services.... & 58,000 & 70,000 & 45,000 & 55,000 & 60,000 & 46,000 & 50,000 & S & S \\
\hline Other activities............................... & 60,000 & 60,300 & 58,000 & 57,000 & 57,000 & S & S & S & S \\
\hline
\end{tabular}

KEY: \(\quad S=\) Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table 55. Median annual salaries of doctoral scientists and engineers, by employment-related characteristics and citizenship status: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Characteristics} & & & & & & & Page 1 of 1 \\
\hline & \multirow[b]{2}{*}{Total} & \multicolumn{3}{|c|}{U.S. Citizen} & \multicolumn{3}{|c|}{Non-U.S. Citizen} \\
\hline & & Total & Native & Naturalized & Total & Permanent resident & Temporary resident \\
\hline Total. & \multirow[t]{2}{*}{\$60,200} & \multirow[t]{2}{*}{\$62,000} & \multirow[t]{2}{*}{\$61,000} & \multirow[t]{2}{*}{\$68,000} & \multirow[t]{2}{*}{\$50,000} & \multirow[t]{2}{*}{\$51,000} & \multirow[t]{2}{*}{\$40,000.} \\
\hline Year of doctorate: & & & & & & & \\
\hline 1993-94 graduates.. & 38,600 & 39,000 & 39,000 & 40,000 & 38,000 & 38,000 & 37,000 \\
\hline 1990-92 graduates... & 48,000 & 47,400 & 47,000 & 53,000 & 48,000 & 50,000 & 41,700 \\
\hline 1985-89 graduates... & 55,000 & 55,200 & 55,000 & 61,000 & 55,000 & 55,000 & 45,000 \\
\hline 1980-84 graduates... & 63,000 & 63,000 & 62,500 & 67,400 & 62,000 & 62,000 & S \\
\hline 1970-79 graduates.. & 70,000 & 70,000 & 70,000 & 74,900 & 68,000 & 68,000 & 101,000 \\
\hline 1960-69 graduates... & 75,000 & 75,000 & 75,000 & 78,000 & 70,000 & 68,000 & S \\
\hline Pre-1960 graduates............................... & 75,000 & 75,000 & 72,000 & 89,000 & S & S & S \\
\hline Sector of employment: & & & & & & & \\
\hline Universities and 4-year colleges............... & 52,300 & 54,000 & 53,800 & 59,000 & 40,300 & 42,900 & 32,000 \\
\hline Other educational institutions..... & 45,000 & 45,400 & 45,400 & 46,000 & 37,000 & 37,000 & S \\
\hline Private-for-profit.. & 75,000 & 75,100 & 75,000 & 76,000 & 62,000 & 63,000 & 58,000 \\
\hline Self-employed.. & 70,000 & 70,000 & 70,000 & 80,000 & 45,000 & 50,000 & S \\
\hline Private not-for-profit. & 60,000 & 60,000 & 60,000 & 68,000 & 42,000 & 46,000 & 31,500 \\
\hline Federal government... & 66,000 & 66,000 & 66,000 & 65,000 & 39,000 & 39,000 & S \\
\hline State and local government... & 50,000 & 50,800 & 50,800 & 50,000 & 42,000 & 42,200 & S \\
\hline Other sector... & 95,000 & 95,000 & 98,000 & 95,000 & 80,000 & 75,000 & 80,000 \\
\hline Primary work activity: & & & & & & & \\
\hline R\&D................... & 63,000 & 65,000 & 65,000 & 70,000 & 50,000 & 52,000 & 38,000 \\
\hline Applied research.. & 65,000 & 67,000 & 66,000 & 70,000 & 53,000 & 55,000 & 40,000 \\
\hline Basic research.. & 52,000 & 55,000 & 55,000 & 60,000 & 37,000 & 40,000 & 30,000 \\
\hline Development..... & 72,000 & 74,000 & 74,400 & 74,000 & 62,000 & 63,000 & 54,600 \\
\hline Design.............................................. & 71,500 & 74,000 & 72,000 & 75,000 & 61,100 & 62,000 & S \\
\hline Teaching.... & 50,000 & 50,000 & 50,000 & 54,000 & 44,000 & 45,300 & 40,000 \\
\hline Management, sales, and administration...... & 79,000 & 79,800 & 79,000 & 82,000 & 64,000 & 65,000 & 60,000 \\
\hline Computer applications............................ & 64,000 & 66,000 & 65,000 & 70,000 & 55,000 & 55,000 & 54,000 \\
\hline Professional services............................. & 60,000 & 60,000 & 60,000 & 70,000 & 48,000 & 48,000 & S \\
\hline Other activities..................................... & 63,000 & 65,000 & 64,200 & 70,000 & 50,000 & 52,000 & S \\
\hline
\end{tabular}

KEY: \(\quad\) S = Median based on fewer than 200 weighted cases--suppressed for reasons of respondent conlidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{l|r|r|r|r|r|r|r|r|r|r} 
Page 1 of 1
\end{tabular}

KEY: \(\quad\) S = Median based on fewer than 200 weighted cases--suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{9}{|r|}{Page 1 of 1} \\
\hline Field of doctorate & Total & \[
\begin{gathered}
\hline 1993- \\
1994 \\
\text { grads } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
\hline 1990- \\
1992 \\
\text { grads } \\
\hline
\end{gathered}
\] & \[
\begin{gathered}
1985 \\
1989 \\
\text { grads }
\end{gathered}
\] & \[
\begin{gathered}
1980- \\
1984 \\
\text { grads }
\end{gathered}
\] & \[
\begin{gathered}
1970 \\
1979 \\
\text { grads }
\end{gathered}
\] & \[
\begin{array}{r}
1960- \\
1969 \\
\text { grads } \\
\hline
\end{array}
\] & Pre-1960 grads \\
\hline Total. & \$60,200 & \$38,600 & \$48,000 & \$55,000 & \$63,000 & \$70,000 & \$75,000 & \$75,000 \\
\hline Sciences.. & 60,000 & 36,000 & 43,600 & 52,200 & 61,000 & 69,000 & 74,000 & 73,200 \\
\hline Computer and mathematical sciences... & 60,000 & 45,000 & 50,000 & 59,000 & 60,000 & 68,600 & 67,000 & S \\
\hline Computer and information sciences.. & 65,000 & 54,000 & 61,000 & 65,000 & 72,500 & 78,000 & S & S \\
\hline Mathematical sciences... & 60,000 & 36,000 & 40,000 & 47,000 & 55,000 & 67,000 & 67,000 & S \\
\hline Life and related sciences... & 57,000 & 30,400 & 40,000 & 52,000 & 60,000 & 68,000 & 75,000 & 76,000 \\
\hline Agricultural and food sciences... & 55,000 & 36,000 & 43,400 & 51,000 & 58,000 & 62,000 & 72,000 & 80,000 \\
\hline Biological and health sciences... & 57,700 & 30,000 & 38,600 & 52,000 & 60,000 & 70,000 & 75,000 & 76,000 \\
\hline Environmental sciences... & 55,900 & 47,000 & 47,800 & 50,000 & 60,000 & 62,000 & 70,000 & S \\
\hline Physical and related sciences... & 66,000 & 36,500 & 48,000 & 58,000 & 70,000 & 75,000 & 78,300 & 75,000 \\
\hline Chemistry, except biochemistry.............. & 68,000 & 38,900 & 52,000 & 60,900 & 70,000 & 76,000 & 78,000 & 72,000 \\
\hline Geology and oceanography.............. & 60,000 & 37,000 & 42,000 & 50,000 & 65,000 & 72,000 & 78,000 & S \\
\hline Physics and astronomy... & 68,000 & 36,000 & 45,000 & 55,900 & 70,000 & 77,000 & 79,000 & 79,000 \\
\hline Other physical sciences (incl. earth). & 50,000 & S & 40,000 & 50,000 & 62,500 & 75,400 & S & S \\
\hline Social and related sciences., & 55,500 & 38,000 & 44,000 & 50,000 & 60,000 & 62,000 & 66,000 & 70,000 \\
\hline Economics... & 65,000 & 47,800 & 50,000 & 59,000 & 63,000 & 70,000 & 76,400 & 65,700 \\
\hline Political and related sciences... & 55,000 & 37,000 & 39,000 & 45,000 & 55,000 & 63,000 & 66,500 & 80,000 \\
\hline Psychology.......................... & 56,000 & 38,000 & 45,500 & 52,800 & 60,000 & 62,600 & 62,000 & 69,100 \\
\hline Sociology and anthropology................... & 50,000 & 32,000 & 40,000 & 43,000 & 50,000 & 56,000 & 65,700 & 62,800 \\
\hline Other social sciences.. & 50,000 & 39,000 & 42,000 & 45,000 & 59,000 & 60,000 & 63,500 & S \\
\hline Engineering..... & 70,000 & 52,000 & 60,000 & 67,000 & 74,800 & 83,000 & 90,000 & 80,000 \\
\hline Aerospace/aeronautical. & 72,000 & 48,000 & 56,000 & 65,000 & S & 82,300 & 89,000 & S \\
\hline Chemical. & 73,000 & 55,000 & 64,000 & 70,000 & 80,000 & 88,900 & 92,000 & S \\
\hline Civil. & 65,000 & 47,800 & 55,000 & 57,000 & 66,000 & 80,000 & 93,000 & S \\
\hline Electrical/computer. & 75,000 & 60,000 & 64,000 & 72,000 & 79,200 & 90,000 & 90,000 & 90,000 \\
\hline Industrial. & 60,000 & 49,300 & 52,000 & 60,000 & S & 65,000 & 96,000 & S \\
\hline Mechanical. & 67,000 & 51,500 & 59,000 & 62,000 & 70,000 & 81,700 & 88,000 & S \\
\hline Other engineering................................ & 69,500 & 48,000 & 55,000 & 65,900 & 74,500 & 80,000 & 80,000 & 80,000 \\
\hline
\end{tabular}

KEY: \(\quad \mathrm{S}=\) Median based on fewer than 200 weighted cases - -suppressed for reasons of respondent confidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample. Median salaries were computed for full-time employed individuals only.

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Geographic location & Total & Sciences & Computer and mathematical sciences & \begin{tabular}{l}
Life and related \\
sciences
\end{tabular} & Physical and related sciences & Social and related sciences & Engineering \\
\hline Total... & \$60,200 & \$60,000 & \$60,000 & \$57,000 & \$66,000 & \$55,500 & \$70,000 \\
\hline New England... & 60,000 & 59,000 & 67,000 & 54,500 & 67,000 & 55,000 & 70,000 \\
\hline Connecticut............ & 67,000 & 65,000 & 65,000 & 63,000 & 74,000 & 60,000 & 79,600 \\
\hline Maine.... & 50,000 & 48,300 & S & 47,000 & 58,500 & 50,000 & S \\
\hline Massachusetts................ & 60,000 & 59,500 & 72,000 & 53,000 & 64,000 & 58,000 & 72,000 \\
\hline New Hampshire............... & 55,700 & 50,000 & S & 50,000 & 56,000 & 50,000 & 67,000 \\
\hline Rhode island.................. & 55,000 & 53,500 & S & 54,000 & 65,000 & 50,000 & 65,000 \\
\hline Vermont.. & 57,000 & 54,500 & S & 47,000 & S & 55,000 & 63,000 \\
\hline Middle Atlantic.................. & 65,000 & 64,000 & 68,000 & 62,000 & 70,000 & 60,000 & 72,000 \\
\hline New Jersey..................... & 75,000 & 74,000 & 80,000 & 73,000 & 75,000 & 65,000 & 75,000 \\
\hline New York.................. & 63,000 & 61,000 & 65,000 & 60,000 & 67,000 & 60,000 & 71,000 \\
\hline Pennsylvania.. & 60,000 & 60,000 & 58,600 & 60,000 & 63,000 & 55,000 & 70,000 \\
\hline East North Central............. & 60,000 & 58,000 & 58,000 & 60,000 & 63,000 & 54,000 & 66,600 \\
\hline Illinois............. & 60,000 & 60,000 & 62,000 & 60,000 & 61,000 & 58,000 & 68,000 \\
\hline Indiana............. & 56,500 & 55,900 & 46,000 & 58,000 & 60,000 & 50,000 & 65,000 \\
\hline Michigan................. & 64,300 & 62,000 & 57,000 & 62,000 & 70,000 & 56,000 & 70,000 \\
\hline Ohio.... & 58,000 & 56,000 & 54,300 & 60,000 & 63,000 & 51,300 & 64,600 \\
\hline Wisconsin.................. & 55,000 & 53,000 & 60,000 & 51,000 & 57,300 & 50,300 & 66,000 \\
\hline West North Central.. & 55,000 & 53,000 & 50,000 & 54,400 & 59,000 & 50,000 & 63,000 \\
\hline lowa............................. & 55,000 & 54,500 & 55,500 & 55,000 & 51,000 & 54,500 & 59,400 \\
\hline Kansas................... & 51,000 & 50,000 & 42,000 & 50,000 & 53,000 & 48,000 & 61,000 \\
\hline Minnesola... & 60,000 & 58,000 & 65,000 & 59,000 & 67,500 & 52,000 & 66,600 \\
\hline Missouri..................... & 54,000 & 52,000 & 48,900 & 55,000 & 56,000 & 49,500 & 74,600 \\
\hline North Dakota............. & 43,000 & 43,000 & S & 49,000 & S & 42,000 & S \\
\hline Nebraska................. & 53,000 & 53,000 & S & 57,500 & 55,000 & 50,000 & 57,500 \\
\hline South Dakota.................. & 43,900 & 44,000 & S & 48,900 & S & 40,000 & S \\
\hline South Atlantic................... & 62,000 & 60,000 & 60,000 & 58,500 & 66,000 & 60,000 & 70,000 \\
\hline Delaware.................. & 72,000 & 71,100 & S & 70,000 & 76,600 & 55,000 & 80,000 \\
\hline Dist of Columbia............. & 75,000 & 75,000 & 75,000 & 67,000 & 75,000 & 79,200 & 72,000 \\
\hline Florida....................... & 58,000 & 54,000 & 50,000 & 52,000 & 53,900 & 60,000 & 64,700 \\
\hline Georgia........................ & 55,000 & 53,000 & 53,000 & 58,000 & 50,000 & 50,000 & 68,000 \\
\hline Maryland....................... & 62,000 & 60,000 & 60,000 & 60,000 & 70,000 & 55,000 & 75,000 \\
\hline North Carolina.............. & 59,400 & 57,300 & 54,500 & 63,000 & 58,600 & 51,600 & 70,000 \\
\hline South Carolina................ & 54,000 & 50,000 & 50,000 & 52,100 & 59,500 & 46,000 & 65,000 \\
\hline Virginia......................... & 65,000 & 62,500 & 65,000 & 55,000 & 77,900 & 60,000 & 75,000 \\
\hline West Virginia.................. & 58,000 & 55,000 & S & 51,600 & 63,600 & 52,000 & 61,000 \\
\hline
\end{tabular}

\footnotetext{
See explanatory information and SOURCE at end of table.
}
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Geographic location & Total & Sciences & Computer and mathematical sciences & \begin{tabular}{l}
Life and related \\
sciences
\end{tabular} & Physical and related sciences & Social and related sciences & Engineering \\
\hline East South Central............ & \$56,000 & \$55,000 & \$49,000 & \$52,500 & \$60,000 & \$55,000 & \$65,000 \\
\hline Alabama........................ & 59,200 & 56,000 & 55,000 & 56,000 & 58,000 & 50,100 & 67,000 \\
\hline Kentucky....................... & 52,500 & 50,000 & 46,500 & 55,000 & 62,000 & 47,000 & 70,000 \\
\hline Mississippi................ & 55,000 & 52,300 & S & 52,300 & 65,900 & 50,000 & 67,000 \\
\hline Tennessee.................. & 57,500 & 56,000 & 50,000 & 50,000 & 60,000 & 60,000 & 60,000 \\
\hline West South Central........... & 60,000 & 55,000 & 53,600 & 51,000 & 66,300 & 50,000 & 72,500 \\
\hline Arkansas........ & 48,500 & 47,500 & S & 44,800 & 54,000 & 47,500 & S \\
\hline Louisiana.... & 56,000 & 55,000 & 41,000 & 49,600 & 61,500 & 56,000 & 65,700 \\
\hline Oklahoma... & 57,000 & 55,000 & S & 50,000 & 60,000 & 56,500 & 80,000 \\
\hline Texas........................... & 60,800 & 57,000 & 60,000 & 52,500 & 68,000 & 50,000 & 75,000 \\
\hline Mountain.... & 59,200 & 55,000 & 60,000 & 51,000 & 63,900 & 50,000 & 70,000 \\
\hline Arizona......... & 57,000 & 51,000 & 49,000 & 50,000 & 58,500 & 49,000 & 69,000 \\
\hline Colorado...... & 58,400 & 56,000 & 59,000 & 50,000 & 61,000 & 50,000 & 72,000 \\
\hline Idaho............ & 57,000 & 54,000 & S & 54,000 & 66,000 & 53,000 & 64,000 \\
\hline Montana........................ & 44,000 & 44,000 & S & 52,000 & 52,300 & 40,000 & S \\
\hline New Mexico..... & 67,400 & 65,000 & 65,000 & 52,500 & 71,000 & 44,000 & 73,000 \\
\hline Nevada...... & 60,000 & 55,500 & S & 53,600 & 72,500 & 55,000 & 68,000 \\
\hline Utah.... & 54,000 & 51,000 & S & 51,000 & 45,000 & 54,000 & 70,000 \\
\hline Wyoming........................ & 48,000 & 46,000 & S & S & S & 46,000 & S \\
\hline Pacific............................ & 63,800 & 60,700 & 65,000 & 58,000 & 70,000 & 58,000 & 73,000 \\
\hline Alaska........... & 57,000 & 56,000 & S & 55,000 & 60,000 & 56,000 & S \\
\hline California... & 67,000 & 63,100 & 67,000 & 60,000 & 71,600 & 60,000 & 76,000 \\
\hline Hawaii... & 60,000 & 60,000 & S & 63,500 & 62,800 & 56,000 & S \\
\hline Oregon.......................... & 52,000 & 50,000 & 55,900 & 48,500 & 62,000 & 46,000 & 63,200 \\
\hline Washington.................... & 57,700 & 55,500 & 60,000 & 54,000 & 62,000 & 55,000 & 64,000 \\
\hline U.S. possessions.............. & 50,000 & 50,000 & S & 65,000 & 50,000 & 40,000 & 48,000 \\
\hline
\end{tabular}

KEY: \(\quad S=\) Median based on fewer than 200 weighted cases-suppressed for reasons of respondent confidentiality and/or data reliability.
NOTE: All numbers in the table are estimates derived from a sample. Median salaries were computed for full-time employed individuals only.

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline Geographic location & Total & Scientists & Computer and mathematical scientists & \begin{tabular}{l}
Life and related \\
scientists
\end{tabular} & Physical and
related
scientists & Social and related scientists & Engineers & Non-S\&E occupations \\
\hline Total... & \$60,200 & \$55,000 & \$60,000 & \$53,300 & \$60,000 & \$53,000 & \$67,000 & \$73,500 \\
\hline New England................ & 60,000 & 56,000 & 65,000 & 51,000 & 60,000 & 55,000 & 65,000 & 72,000 \\
\hline Connecticut... & 67,000 & 65,000 & 68,000 & 60,000 & 73,000 & 61,000 & 67,000 & 75,000 \\
\hline Maine.............. & 50,000 & 46,000 & S & 45,000 & 56,000 & 48,000 & S & 58,000 \\
\hline Massachusetts... & 60,000 & 56,000 & 66,000 & 50,000 & 60,000 & 55,600 & 65,000 & 75,000 \\
\hline New Hampshire.... & 55,700 & 46,000 & 68,700 & 42,300 & 49,000 & 46,000 & 67,000 & 62,500 \\
\hline Rhode Island........ & 55,000 & 52,700 & S & 57,500 & S & 50,000 & 65,000 & 55,000 \\
\hline Vermont.................... & 57,000 & 50,900 & S & 40,000 & S & 55,000 & 63,000 & 60,000 \\
\hline Middle Atlantic...... & 65,000 & 60,000 & 65,000 & 58,900 & 65,000 & 56,000 & 70,000 & 78,000 \\
\hline New Jersey......... & 75,000 & 69,000 & 74,000 & 67,400 & 71,400 & 60,000 & 72,500 & 95,000 \\
\hline New York............ & 63,000 & 58,700 & 63,000 & 58,000 & 63,000 & 55,000 & 68,000 & 75,000 \\
\hline Pennsylvania..... & 60,000 & 55,400 & 55,000 & 53,000 & 60,000 & 55,000 & 65,000 & 72,000 \\
\hline East North Central......... & 60,000 & 55,000 & 57,300 & 55,000 & 56,000 & 50,000 & 64,000 & 72,000 \\
\hline Ilinois... & 60,000 & 56,500 & 60,000 & 55,000 & 56,200 & 53,600 & 66,600 & 70,000 \\
\hline Indiana... & 56,500 & 53,000 & 56,000 & 55,000 & 55,000 & 48,500 & 56,400 & 71,000 \\
\hline Michigan...... & 64,300 & 58,000 & 57,000 & 60,000 & 60,000 & 55,000 & 68,000 & 78,000 \\
\hline Ohio... & 58,000 & 52,000 & 52,000 & 54,400 & 56,000 & 49,200 & 61,200 & 75,000 \\
\hline Wisconsin.. & 55,000 & 50,000 & 56,000 & 49,000 & 54,000 & 50,000 & 56,000 & 60,000 \\
\hline West North Central........ & 55,000 & 50,200 & 55,000 & 54,000 & 52,000 & 49,000 & 61,000 & 64,500 \\
\hline lowa... & 55,000 & 55,000 & 60,000 & 55,000 & 49,500 & 55,000 & 57,000 & 52,000 \\
\hline Kansas....... & 51,000 & 50,000 & 43,000 & 57,000 & 50,000 & 50,000 & 56,000 & 46,300 \\
\hline Minnesota... & 60,000 & 53,300 & 60,000 & 51,000 & 59,000 & 50,000 & 65,000 & 80,000 \\
\hline Missouri........ & 54,000 & 50,000 & 47,900 & 55,000 & 52,000 & 46,500 & 70,000 & 70,100 \\
\hline North Dakota.. & 43,000 & 42,000 & S & 48,000 & S & 41,000 & S & 53,000 \\
\hline Nebraska... & 53,000 & 52,000 & S & 57,500 & 54,000 & 43,000 & S & 64,000 \\
\hline South Dakota....... & 43,900 & 44,000 & S & 44,000 & S & 40,000 & S & 40,000 \\
\hline South Atiantic......... & 62,000 & 56,000 & 60,000 & 53,500 & 60,000 & 55,000 & 65,000 & 76,000 \\
\hline Delaware.. & 72,000 & 70,000 & S & 70,000 & 76,600 & S & 80,000 & 76,200 \\
\hline Dist of Columbia... & 75,000 & 68,700 & 70,000 & 60,000 & 65,000 & 72,000 & 65,000 & 85,000 \\
\hline Florida... & 58,000 & 50,000 & 45,800 & 45,000 & 54,000 & 52,000 & 62,000 & 65,000 \\
\hline Georgia............... & 55,000 & 50,000 & 54,400 & 53,000 & 49,000 & 50,000 & 67,800 & 67,000 \\
\hline Maryland................... & 62,000 & 55,600 & 61,800 & 52,800 & 63,000 & 53,000 & 72,000 & 78,000 \\
\hline North Carolina............. & 59,400 & 55,000 & 55,500 & 58,000 & 55,000 & 48,600 & 62,000 & 72,900 \\
\hline South Carolina.... & 54,000 & 49,100 & 50,000 & 50,000 & 50,000 & 46,000 & 65,000 & 63,000 \\
\hline Virginia...................... & 65,000 & 58,000 & 66,000 & 50,000 & 65,000 & 52,000 & 70,000 & 83,000 \\
\hline West Virginia.............. & 58,000 & 53,000 & S & 51,000 & 59,000 & 52,000 & 60,000 & 60,000 \\
\hline
\end{tabular}

See explanatory information and SOURCE at end of table.

Tąble 59. Median annual salaries of doctoral scientists and engineers, by geographic location
and broad occupation: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline & & & & & & & & Page 2 of 2 \\
\hline Geographic location & Total & Scientists & Computer and mathematical scientists & Life and related scientists & \begin{tabular}{|c} 
Physical and \\
related \\
scientists
\end{tabular} & Social and related scientists & Engineers & Non-S\&E occupations \\
\hline East South Central...... & \$56,000 & \$52,000 & \$50,000 & \$52,000 & \$54,000 & \$51,000 & \$63,000 & \$65,000 \\
\hline Alabama..... & 59,200 & 50,100 & 45,600 & 53,700 & 48,000 & 50,000 & 69,500 & 70,000 \\
\hline Kentucky.... & 52,500 & 48,000 & 48,000 & 49,000 & 53,000 & 45,000 & 67,000 & 61,000 \\
\hline Mississippi....... & 55,000 & 52,000 & S & 52,100 & 65,900 & 45,000 & 60,000 & 58,000 \\
\hline Tennessee........ & 57,500 & 55,000 & 50,000 & 48,000 & 55,000 & 60,000 & 60,000 & 65,000 \\
\hline West South Central. & 60,000 & 52,000 & 52,500 & 50,000 & 57,300 & 50,000 & 67,500 & 70,000 \\
\hline Arkansas.... & 48,500 & 44,800 & S & 44,000 & 40,000 & 47,000 & S & 54,000 \\
\hline Louisiana.... & 56,000 & 50,000 & 45,000 & 46,000 & 58,000 & 50,000 & 62,000 & 65,000 \\
\hline Oklahoma.. & 57,000 & 50,000 & 45,000 & 48,900 & 50,000 & 58,000 & 64,000 & 65,000 \\
\hline Texas.... & 60,800 & 54,000 & 58,700 & 52,000 & 59,000 & 48,400 & 70,000 & 70,000 \\
\hline Mountain... & 59,200 & 52,000 & 54,000 & 48,500 & 61,000 & 49,200 & 65,000 & 70,000 \\
\hline Arizona.. & 57,000 & 50,000 & 49,000 & 45,000 & 53,000 & 50,200 & 66,000 & 61,500 \\
\hline Colorado.. & 58,400 & 54,000 & 58,000 & 49,800 & 55,000 & 50,000 & 66,000 & 75,000 \\
\hline Idaho.......... & 57,000 & 50,000 & S & 50,000 & 55,000 & 48,000 & 61,000 & 70,000 \\
\hline Montana... & 44,000 & 42,500 & S & 50,000 & S & 38,000 & S & 57,000 \\
\hline New Mexico.. & 67,400 & 64,900 & 60,000 & 49,900 & 70,000 & 40,000 & 67,400 & 78,000 \\
\hline Nevada... & 60,000 & 55,000 & S & S & 65,000 & 55,000 & 68,000 & 70,000 \\
\hline Utah............ & 54,000 & 49,100 & 60,000 & 48,700 & 43,000 & 49,100 & 60,000 & 65,000 \\
\hline Wyoming.................. & 48,000 & 44,000 & S & S & S & S & S & S \\
\hline Pacific.. & 63,800 & 59,000 & 63,000 & 54,000 & 62,900 & 55,000 & 70,000 & 75,000 \\
\hline Alaska... & 57,000 & 57,000 & S & S & 50,000 & 57,000 & S & 63,000 \\
\hline California. & 67,000 & 60,000 & 65,000 & 55,000 & 66,000 & 58,000 & 73,000 & 80,000 \\
\hline Hawaii.. & 60,000 & 58,000 & S & 60,000 & 58,000 & 55,000 & S & 65,000 \\
\hline Oregon..................... & 52,000 & 48,500 & 52,000 & 48,100 & 56,300 & 45,200 & 62,000 & 55,000 \\
\hline Washington................ & 57,700 & 54,000 & 57,000 & 51,000 & 55,000 & 54,000 & 65,000 & 67,000 \\
\hline U.S. possessions.... & 50,000 & 40,000 & S & S & S & S & 45,000 & 70,000 \\
\hline
\end{tabular}

KEY: \(\quad S=\) Median based on fewer than 200 weighted cases-suppressed for reasons of respondent confidentiality and/or data reliability.

NOTE: All numbers in the table are estimates derived from a sample.
Median salaries were computed for full-time employed individuals only.
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

\section*{Appendix A.}

\section*{Technical Notes}

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\section*{Appendix A. Technical Notes}

The data on doctoral scientists and engineers contained in this report come from the 1995 Survey of Doctorate Recipients (SDR). The SDR has been conducted biennially since 1973 by the National Research Council (NRC) for the National Science Foundation (NSF). Additional data on education and demographic information come from the National Research Council's Doctorate Records File (DRF). The DRF contains data from an ongoing census of research doctorates earned in the United States since 1920.

\section*{The Sampling Frame and Target Population}

For the 1995 SDR the sampling frame for scientists and engineers was selected from the DRF to include individuals who
(1) had earned a doctoral degree from a U.S. college or university in a science or engineering field;
(2) were U.S. citizens or, if non-U.S. citizens, indicated they had plans to remain in the United States after degree award; and
(3) were under 76 years of age as of April 1995 (the survey reference date).

The 1995 frame consisted of graduates who had earned their degrees between January 1942 and June 1994. Persons who did not meet the age criteria (or had died) were eliminated from the sample.

The survey had two additional eligibility criteria for the survey target population. The sampled member must be resident in the United States and not institutionalized as of the reference date.

\section*{Sample Design}

In 1995, the SDR sample size was 49,829 . The total sample was selected from 2 groups:
(1) 1993 sample members who were still eligible in 1995, and
(2) a sample of the 1993-94 graduating cohort.

Group 1 cases were included with certainty because they are the core sample that is conveyed from year to year; group 2 cases were sampled and added to the core sample to form the total sample. A maintenance cut was done to the sample to keep the sample size roughly the same as it was in 1993.

The basic sample design was a stratified random sample. The variables used for stratification were 15 broad fields of degree, 2 genders, and an 8 -category "group" variable combining race/ethnicity, handicap status, and citizenship status.

The overall sampling rate was about 1 in 12 ( 8 percent) in the 1995 SDR, applied to a population of 594,300 . However, sampling rates varied considerably within and between the strata. These differences resulted from oversampling of women, minority groups and other groups of special interest, and the accumulation of sample size adjustments over the years.

\section*{Data Collection}

In 1995, there were 2 phases of data collection: a mail survey and telephone followup interviewing with nonrespondents. The mail survey consisted of an advance letter and 2 waves of a personalized mailing package, with a reminder postcard between waves 1 and 2. The first-wave mailing was sent in May 1995, with the follow-up mailing sent by priority mail in July.

Phase 2 consisted of telephone interviewing. A 60 percent sample of nonrespondents to the mail survey were followed up using computer-assisted telephone interviewing (CATI). Telephone interviewing was conducted between November 1995 and February 1996.

\section*{Survey Design and Content}

The 1995 SDR retained questionnaire design changes that were implemented in 1993. Most items on the 1995 questionnaire were the same as in 1993 with the addition of a section to collect data on employment history and periods of unemployment.

\section*{Response Rates}

The overall response rate for the 1995 SDR was 85 percent. The response to the mail phase of the
survey was about 62 percent. (Response rates were calculated as the weighted response divided by the weighted sample cases.)

\section*{Data Preparation}

As completed survey mail questionnaires were received, they were logged and transferred to the editing and coding unit at the NRC for processing. The coders carried out a variety of checks to prepare the documents for data entry. Specifically, they resolved incomplete or contradictory answers, imputed missing answers if logically appropriate, reviewed "other specify" responses for possible backcoding to a listed response, and assigned numeric codes to openended questions such as employer name.

Once questionnaires were edited and coded, they were sent to data entry. The data entry program contained a full complement of range and consistency checks to check for entry errors and inconsistent answers. The range and consistency checks were also applied to the CATI data via batch processing. Further computer checks were performed to test for inconsistent values; these were corrected and the process repeated until no inconsistencies remained.

At this point, the survey data file was ready for imputation of missing data. As a first step, basic frequency distributions were produced to show nonresponse rates to each question-these were generally less than 2 percent, with the exception of salary, which was 5.9 percent. Two methods for imputation were adopted. The first, cold decking, was used mainly for demographic variables that are static, i.e., not subject to change. Using this method, historical data provided by respondents in previous years were used to fill a missing response. For example, if a respondent indicated in 1993 that his birth year was 1947, but left the item blank in 1995, then "1947" was assigned to his birth year in 1995. In cases where no historical data were available, and for nondemographic variables (such as employment status, primary work activity, and salary), hot decking was used. This is the process of finding a donor with characteristics similar to the case with the missing value and using the response given by the donor as a proxy response. Hot decking involves creating groups of cases with common characteristics (through the cross-classification of auxiliary variables) and then selecting a donor at
random for the case with the missing value. As a general rule, no data value was imputed from a donor in one cell to a recipient in another cell.

For a few variables, such as employer name and zip code, imputation was not performed.

\section*{Weighting and Estimation}

The next phase of the survey process involved weighting the survey data to compensate for unequal probabilities of selection to the sample and to adjust for the effects of unit nonresponse. The first step was the construction of sampling weights, which were calculated as the inverse of the probability of selection, taking into account all stages of the sample selection process overtime. The sampling weight can be viewed as the number of population members the sample member represents. Sampling weights varied within cells because different sampling rates were used depending on the year of selection and the stratification in effect at that time.

The second step was to construct a combined weight, which took into account the subsampling of nonrespondents at the CATI phase. All respondents received a combined weight, which for mail respondents was equal to the sample weight and for CATI respondents was a combination of their original sample weight and their CATI subsample weight.

The third step was to adjust the sampling weights for unit nonresponse. (Unit nonresponse occurs when the sample member refuses to participate or cannot be located.) This was done in a group of nonresponse adjustment cells created using poststratification. Within each nonresponse adjustment cell, a weighted nonresponse rate, which took into account both mail and CATI nonresponse, was calculated. The nonresponse adjustment factor was the inverse of this weighted response rate. The initial set of nonresponse adjustment factors was examined and, under certain conditions, some of the cells were collapsed if use of the adjustment factor would create excessive variance.

The final weights for respondents were calculated by multiplying their respective combined weights by the nonresponse adjustment factor. In data analysis, population estimates are made by summing the final weights of all respondents who possess a particular characteristic.

\section*{Reliability \({ }^{1}\)}

The statistics in this report are subject to both sampling and nonsampling error. Sampling variability occurs because a sample rather than an entire population is surveyed. Sampling errors were developed using a generalized variance procedure in order to provide approximate sampling errors that would be applicable to a wide variety of items. As a result, these sampling errors provide an indication of the order of magnitude of a sampling error rather than a precise sampling error for any specific item.

Information provided in table A-3 permits the user to calculate approximate standard errors. The general form of the equation used to model the generalized variances is \(V=a+b / x\), where \(V\) was modeled in relative standard error form.

The following computational form can be used for estimating the standard error of totals using the formula
\[
S_{X}=\left[a x^{2}+b x\right]^{1 / 2}
\]
where " \(x\) " equals the estimated total and "a" and " \(b\) " are the regression coefficients provided. Values of "a" and "b" by S\&E fields for selected groups are given in table A-3. \({ }^{2}\)

Tables A-4 through A-8 present approximate standard errors associated with totals for different segments of the doctoral population. Tables A-9 through A-13 present standard error estimates for the estimated percent \({ }^{3}\) of a subgroup having a particular characteristic.

The approximate standard error of percentages also was developed using the same general model form. Standard errors for percentages may be estimated using the computational formula
\[
\mathrm{S}_{\mathrm{p}}=\mathrm{p}[\mathrm{~b}((1 / \mathrm{x})-(1 / \mathrm{y}))]^{1 / 2}
\]

\footnotetext{
1 The data and material on sampling reliability presented here are from The Methodological Report of the 1995 Survey of Doctorate Recipients (Washington, D.C. Office of Scientific and Engineering Personnel, National Research Council, forthcoming).

2 The generalized error estimates in this report were based on a set of assumptions that did not appear to hold in the case of some small subpopulations. In such cases, the parameters listed for a higher-level field within a demographic group or a higher-level demographic group within a field were considered a useful substitute as a generalized error estimate.

3 The estimated percent is based on the ratio of two estimated totals, where the numerator is a subset of the denominator.
}
where \(p\) equals the percentage possessing the specific characteristic and \(x\) and \(y\) represent the numerator and denominator, respectfully, of the ratio that yields the observed percentage.

In addition to sampling error, data are subject to nonsampling error. Sources of nonsampling error include nonresponse bias, which arises when individuals who do not respond to a survey differ significantly from those who do, and measurement error, which arises when we are not able to precisely measure the variables of interest. These sources of error are much harder to estimate than sampling errors.

\section*{Notes on the Tables}

The following notes facilitate use of data in the detailed tables.

Because of the changes introduced to the 1993 SDR and retained in the 1995 SDR, users are advised that data in this report are not strictly comparable with SDR data published by NSF prior to 1993.

Field of doctorate is the field of degree as specified by the respondent in the Survey of Earned Doctorates at the time of degree conferral.

Occupation data were derived from responses to several questions on the kind of work done by the respondent. The occupational classification of the respondent was based on his or her principal job held during the reference week-or last job held, if not employed on the reference week (questions A18 and A5). Also used in the occupational classification was a respondent-selected job code (questions A19 and A6).

Sector of employment was based on responses to questions A13 and A15. The category "universities and 4-year colleges" includes 4-year colleges or universities, medical schools (including universityaffiliated hospitals or medical centers), and university affiliated research institutions. "Private-for-Profit" includes self-employed in incorporated business.

Geographic division was based primarily on responses to question All on the location of employment. Individuals not reporting place of employment were classified by their mailing address.

Place Of Birth categories were defined as follows:
\begin{tabular}{rl} 
U.S. \(=\) & Fifty states plus the Virgin Islands, \\
& Panama Canal Zone, Puerto Rico, \\
& American Samoa, Trust Territory, \\
& and Guam
\end{tabular}

Europe = Albania, Armenia, Austria, Belarus, Bosnia-Herzegovina, Bulgaria, Czech Republic, Croatia, Estonia, Georgia, Greece, Hungary, Latvia, Lithuania, Poland, Romania, Russia, Slovakia, Ukraine, Federal Republic of Yugoslavia, Andorra, Belgium, France, Gibraltar, Luxembourg, Monaco, The Netherlands, Portugal, Spain, Switzerland, Germany, Italy, Liechtenstein, Malta, Denmark, England, Finland, Iceland, Northern Ireland, Republic of Ireland, Norway, Scotland, Sweden, Wales, Europe, not specified
\begin{tabular}{|c|c|}
\hline Asia & \(=\) Afghanistan, Bahrain, Bangladesh, Cyprus, India, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Nepal, Palestine, Saudi Arabia, Sri Lanka, Syria, Turkey, Cambodia, People's Republic of China, Philippines, Taiwan, China Unspecified, Hong Kong, Japan, Republic of Korea, Korea Unspecified, Laos, Malaysia, Singapore, Thailand, Democratic Republic of Vietnam, Republic of Vietnam, Asia, not specified \\
\hline North America & = Bermuda, Canada, Greenland, North America, not specified \\
\hline Central America & = Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Central America not specified \\
\hline
\end{tabular}

Caribbean = Barbados, Cuba, Dominican Republic, Haiti, Jamaica, Caribbean not specified

South = Argentina, Bolivia, Brazil, Chile, America Columbia, Ecuador, French Guiana, Guyana, Paraguay, Peru, Suriname, Uruguay, Venezuela, South America, not specified

Africa \(=\) Algeria, Egypt, Ethiopia, Ghana, Kenya, Libya, Morocco, Nigeria, South Africa, Sudan, Africa, not specified

Oceania = Australia, Indonesia, New Zealand, Oceania, not specified

Primary work activity was determined from responses to question A27. "Development" includes the development of equipment, products, and systems. "Design" includes the design of equipment, processes, and models.

Federal support was determined from responses to questions A40 and A41.

Tenure status was obtained from the response to question A17.

Race/ethnicity categories of white, black, Asian/ Pacific Islander and Native American refer to nonHispanic individuals only.

Citizenship status category of Non-U.S., temporary resident does not include individuals who, at the time they received their doctorate, expressed plans to leave the U.S. These individuals were excluded from the sampling frame.

Salary data were derived from responses to question A37, in which information was requested regarding annual salary before deductions for income tax., social security, retirement, but excluding bonuses, overtime, and summer teaching. Salaries reported are median annual salaries, rounded to the nearest \(\$ 100\) and computed for full-time employed scientists and engineers. For individuals employed by educational institutions, no accommodation was made to convert academic-year salaries to calendar-year salaries. Users are advised that due to a wording change in the salary question, 1995 salary data are not strictly comparable with 1993 salary data.

\section*{Selected Employment}

\section*{Characteristics}

This report contains several derived statistical measures reflecting labor force and employment rates as of April 1995:

Labor force participation rate. The labor force is defined as those employed (E) plus those unemployed (U-i.e., those not-employed persons actively seeking work). The labor force participation rate ( \(\mathrm{R}_{\mathrm{LF}}\) ) is the ratio of the labor force to the population ( P ).
\[
R_{L F}=(E+U) / P
\]

Unemployment rate. The unemployment rate ( \(\mathrm{R}^{\mathrm{U}}\) ) is the ratio of those who are unemployed but seeking employment \((\mathrm{U})\) to the total labor force \((\mathrm{E}+\mathrm{U})\).
\[
\mathrm{R}_{\mathrm{U}}=\mathrm{U} /(\mathrm{E}+\mathrm{U})
\]

S\&E involuntarily out-of-field rate. The S\&E involuntarily out-of-field rate is the percent of employed individuals who reported they were either:
(1) working part-time exclusively because suitable full-time work was not available; and/or
(2) working in an area not related to the first doctoral degree (in their principal job) at least partially because suitable work in the field was not available.

\section*{ApPENDIXES}
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Table A-1. Stratification, sample, and survey responses of doctoral scientists and engineers: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{8}{|r|}{Page 1 of 1} \\
\hline Item & \begin{tabular}{l}
Sampling \\
frame
\end{tabular} & Survey sample & Complete response & Ineligible response(1) & Nonresponse & Response rate(2) & Weighted response rate(3) \\
\hline & & & & & & (In per & cent) \\
\hline Total...................................................... & 594,275 & 49,829 & 35,370 & 2,946 & 11,513 & 76.9 & 85.4 \\
\hline Field of doctorate & & & & & & & \\
\hline Chemistry................................................ & 66,595 & 4,328 & 3,100 & 238 & 990 & 77.1 & 86.1 \\
\hline Physics/astronomy.................................... & 42,898 & 3,368 & 2,396 & 213 & 759 & 77.5 & 85.4 \\
\hline Earth/ocean/atmospheric sciences.... & 17,759 & 1,487 & 1,123 & 94 & 270 & 81.8 & 89.7 \\
\hline Mathematical sciences..... & 28,016 & 2,298 & 1,620 & 176 & 502 & 78.2 & 86.6 \\
\hline Computer sciences.................................... & 8,833 & 805 & 595 & 48 & 162 & 79.9 & 90.1 \\
\hline Agricultural sciences... & 28,369 & 2,351 & 1,640 & 198 & 513 & 78.2 & 87.4 \\
\hline Medical sciences...................................... & 17,963 & 2,570 & 1,880 & 99 & 591 & 77.0 & 86.9 \\
\hline NIH biological sciences.. & 66,507 & 9,129 & 6,781 & 357 & 1,991 & 78.2 & 86.9 \\
\hline Other biological sciences... & 50,713 & 3,541 & 2,639 & 195 & 707 & 80.0 & 88.3 \\
\hline Psychology..... & 85,514 & 5,861 & 4,026 & 166 & 1669 & 71.5 & 81.5 \\
\hline Economics.............................................. & 23,156 & 1,384 & 888 & 125 & 371 & 73.2 & 80.6 \\
\hline Anthropology/archeology/sociology..... & 24,803 & 1,868 & 1,326 & 139 & 403 & 78.4 & 87.5 \\
\hline Other social sciences... & 35,916 & 2,140 & 1,421 & 179 & 540 & 74.8 & 84.0 \\
\hline Electrical/electronics engineering................. & 22,896 & 2,132 & 1,421 & 150 & 561 & 73.7 & 82.0 \\
\hline Other engineering...................................... & 74,337 & 6,567 & 4,514 & 569 & 1484 & 77.4 & 85.2 \\
\hline Demographic characteristics & & & & & & & \\
\hline U.S. Born: & & & & & & & \\
\hline Handicapped.. & 13,982 & 1,528 & 1,168 & 70 & 290 & 81.0 & 90.9 \\
\hline White... & 433,194 & 32,493 & 23,737 & 1,043 & 7,713 & 76.3 & 85.9 \\
\hline Black... & 7,633 & 1,572 & 1,181 & 34 & 357 & 77.3 & 80.4 \\
\hline Asian. & 6,753 & 1,413 & 974 & 104 & 335 & 76.3 & 86.6 \\
\hline Hispanic........... & 5,713 & 1,333 & 992 & 39 & 302 & 77.3 & 88.0 \\
\hline Native American...................................... & 919 & 280 & 216 & 7 & 57 & 79.6 & 85.4 \\
\hline Foreign Born: & & & & & & & \\
\hline U.S. Citizen... & 40,283 & 4,235 & 3,043 & 214 & 978 & 76.9 & 85.6 \\
\hline Foreign Citizen....................................... & 85,797 & 6,975 & 4,059 & 1,435 & 1,481 & 78.8 & 81.9 \\
\hline Sex: & & & & & & & \\
\hline Male. & 471,067 & 37,496 & 26,361 & 2,425 & 8,710 & 76.8 & 85.0 \\
\hline Female.. & 123,208 & 12,333 & 9,009 & 521 & 2,803 & 77.3 & 86.8 \\
\hline Year of Doctorate: & & & & & & & \\
\hline 1964 or Earlier....................................... & 70,443 & 5,791 & 4,051 & 390 & 1,350 & 76.7 & 83.2 \\
\hline 1965 to 1974.. & 139,570 & 10,969 & 7,706 & 594 & 2,669 & 75.7 & 83.8 \\
\hline 1975 to 1984.. & 165,100 & 13,745 & 9,716 & 703 & 3,326 & 75.8 & 84.6 \\
\hline 1985 to 1994.......................................... & 219,162 & 19,324 & 13,897 & 1,259 & 4,168 & 78.4 & 87.8 \\
\hline
\end{tabular}
(1)The 2,946 ineligible responses include the following: doctorates living outside the U.S. during the week of April \(15,1995(2,646)\); deceased (257); those who were institutionalized during the week of April 15, 1995 (27); over the age of 75 in April 1995 (11).
(2) The unweighted response rate is calculated as the total responses divided by the total sample.
(3) The weighted response rate is the total responses multiplied by their sample weights divided by the total sample multiplied by their sample weights. Nonrespondents to the mail that were followed-up via CATI carry an adjusted sample weight.

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients


SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
Table A-3: Listing of a and b parameters for selected demographic groups in science and engineering fields: 1995


6
\[
0
\]
N
\[
\frac{n}{\underset{j}{j}}
\]
S \(\begin{array}{r}\circ \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \\ \hline\end{array}\) \begin{tabular}{l}
\(n\) \\
0 \\
0 \\
\(\vdots\) \\
\(\vdots\) \\
\hline
\end{tabular}
\[
-0.000277
\] 0.000367 18.1395
0.002501 -0.002501
17.1318
0.003694 -0.003694
14.3085
 13.4704 \(-0.000787\) 14.1837 0.024752 3.9799
-0.000905
\[
-0.000207
\]

 N \(-0.001299\)
 \(\stackrel{\circ}{\stackrel{8}{\circ}}\) 0.007492
 N

-0.005573
15.4796

Physics and astronomy..........................
Other physical sciences (Incl. earth)...


Mathematical sciences...

Life and related sciences...............................
113
\[
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21.1058
\end{array}
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\end{tabular} \(\stackrel{ \pm}{\overline{6}}\)



 윷 N N N

5


Table A-4. Approximate standard errors of estimated number of doctoral scientists and engineers
by field of doctorate: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{3}{*}{Estimated number} & \multirow[b]{3}{*}{Total} & \multicolumn{5}{|c|}{\multirow[b]{2}{*}{Sciences}} & \multicolumn{5}{|r|}{\multirow[t]{2}{*}{Engineering Page 1 of 1}} \\
\hline & & & & & & & & & & & \\
\hline & & Total & Computer and mathematical sciences & Life and related sciences & Physical and related sciences & \begin{tabular}{l}
Social and \\
related sciences
\end{tabular} & Total & Chemical & Civil & \begin{tabular}{l}
Electrical/ \\
Computer
\end{tabular} & Mechanical \\
\hline 50 & 30 & 30 & 40 & 30 & 20 & 30 & 30 & 20 & 40 & 30 & 20 \\
\hline 100 & 40 & 50 & 50 & 50 & 30 & 50 & 40 & 20 & 60 & 40 & 30 \\
\hline 200 & 60 & 70 & 70 & 70 & 50 & 70 & 50 & 30 & 80 & 60 & 40 \\
\hline 500 & 100 & 100 & 120 & 100 & 70 & 110 & 90 & 50 & 120 & 90 & 60 \\
\hline 700 & 110 & 120 & 140 & 120 & 90 & 130 & 100 & 70 & 140 & 110 & 70 \\
\hline 1,000 & 140 & 150 & 160 & 150 & 100 & 160 & 120 & 80 & 150 & 130 & 90 \\
\hline 2,500 & 220 & 230 & 250 & 230 & 170 & 250 & 190 & 140 & -. & 190 & 140 \\
\hline 5,000 & 300 & 330 & 340 & 320 & 240 & 350 & 260 & 230 & - & 260 & 210 \\
\hline 10,000 & 430 & 460 & 440 & 440 & 350 & 490 & 370 & 410 & - & 330 & 320 \\
\hline 25,000 & 670 & 720 & 410 & 660 & 590 & 750 & 530 & .. & - & -- & .- \\
\hline 50,000 & 930 & 990 & .. & 800 & 910 & 1,020 & 630 & -- & -- & -- & -- \\
\hline 75,000 & 1,120 & 1,170 & .. & 800 & 1,210 & 1,200 & 590 & -- & -- & -- & -- \\
\hline 100,000 & 1,270 & 1,310 & .. & 660 & 1,490 & 1,330 & -- & -- & -- & -- & -- \\
\hline 150,000 & 1,500 & 1,510 & -- & -- & -- & 1,470 & -- & -- & - & -- & -- \\
\hline 200,000 & 1,670 & 1,610 & -- & -- & -- & -- & -- & -- & -- & -- & -- \\
\hline 250,000 & 1,780 & 1,640 & -- & -- & -- & -- & -- & -- & -- & -- & -- \\
\hline 300,000 & 1,860 & 1,600 & -- & -- & -- & -- & -- & -- & -- & -- & -- \\
\hline 400,000 & 1,920 & 1,300 & -- & -- & -- & -- & - & -- & -- & -- & -- \\
\hline 500,000 & 1,850 & .- & .- & -- & -- & -- & -- & -- & -- & -- & -- \\
\hline
\end{tabular}

KEY: '--' = Not applicable

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

\section*{Table A-5. Approximate standard errors of estimated number of women doctoral scientists and engineers} by field of doctorate: 1995
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Estimated number} & \multirow[b]{2}{*}{Total} & \multicolumn{5}{|c|}{Sciences} & \multicolumn{5}{|c|}{Engineering} \\
\hline & & Total & Computer and mathematical sciences & Life and related sciences & Physical and related sciences & \begin{tabular}{l}
Social and \\
related \\
sciences
\end{tabular} & Total & Chemical & Civil & \begin{tabular}{l}
Electrical/ \\
Computer
\end{tabular} & Mechanical \\
\hline 50 & 30 & 30 & 20 & 30 & 20 & 30 & 30 & 10 & 20 & 20 & 20 \\
\hline 100 & 40 & 40 & 20 & 40 & 20 & 40 & 50 & 20 & 20 & 30 & 30 \\
\hline 200 & 50 & 50 & 30 & 60 & 30 & 60 & 70 & -- & . & 40 & -- \\
\hline 500 & 80 & 80 & 50 & 90 & 50 & 100 & 100 & -- & - & -- & -- \\
\hline 700 & 100 & 90 & 60 & 110 & 60 & 120 & 120 & .- & - & -- & -- \\
\hline 1,000 & 110 & 110 & 70 & 130 & 80 & 140 & 130 & -- & - & -- & -- \\
\hline 2,500 & 180 & 180 & -- & 200 & 140 & 220 & 140 & -- & -- & -- & -- \\
\hline 5,000 & 260 & 250 & -- & 280 & 220 & 310 & -- & -- & -- & -- & -- \\
\hline 10,000 & 360 & 360 & -- & 370 & 390 & 440 & -- & -- & \(\cdots\) & -- & -- \\
\hline 25,000 & 580 & 580 & -- & 460 & -- & -- & -- & -- & -- & -- & -- \\
\hline 50,000 & 840 & 840 & -- & -- & -- & -- & -- & -- & -- & -- & -- \\
\hline 75,000 & 1,050 & 1,060 & -- & -- & -- & -- & -- & -- & -- & -- & -- \\
\hline 100,000 & 1,230 & 1,260 & -- & -- & -- & -- & -- & -- & -- & -- & -- \\
\hline
\end{tabular}

KEY: '--' = Not applicable

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Estimated number} & \multirow[b]{2}{*}{Total} & \multicolumn{5}{|c|}{Sciences} & \multicolumn{5}{|c|}{Engineering} \\
\hline & & Total & Computer and mathematical sciences & \begin{tabular}{l}
Life and related \\
sciences
\end{tabular} & \begin{tabular}{l}
Physical and \\
related \\
sciences
\end{tabular} & Social and related sciences & Total & Chemical & Civil & \begin{tabular}{l}
Electrical/ \\
Computer
\end{tabular} & Mechanical \\
\hline 50 & 20 & 30 & 30 & 20 & 30 & 30 & 20 & 20 & 20 & 10 & 20 \\
\hline 100 & 40 & 40 & 40 & 20 & 40 & 40 & 20 & .- & 30 & 20 & 20 \\
\hline 200 & 50 & 50 & 50 & 30 & 50 & 50 & 40 & -- & . & 40 & -- \\
\hline 500 & 80 & 80 & -- & 60 & 70 & 80 & 70 & -- & - & .- & -- \\
\hline 700 & 90 & 90 & -- & 70 & 80 & 100 & 80 & -- & & .. & -- \\
\hline 1,000 & 110 & 110 & -- & 90 & 80 & 120 & . & -- & - & -- & -- \\
\hline 2,500 & 170 & 170 & .- & . & -- & 170 & - & - & - & .- & .- \\
\hline 5,000 & 220 & 220 & -- & - & -- & - & - & -- & - & -- & -- \\
\hline 10,000 & 270 & - & .- & - & .- & - & - & - & - & -- & - \\
\hline
\end{tabular}

KEY: ' \({ }^{\prime}\) = Not applicable
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table A-7. Approximate standard errors of estimated number of Asian doctoral scientists and engineers by field of doctorate: 1995

Page 1 of 1
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Estimated number} & \multirow[b]{2}{*}{Total} & \multicolumn{5}{|c|}{Sciences} & \multicolumn{5}{|c|}{Engineering} \\
\hline & & Total & Computer and mathematical sciences & Life and related sciences & \begin{tabular}{l}
Physical and \\
related sciences
\end{tabular} & Social and related sciences & Total & Chemical & Civil & \begin{tabular}{l}
Electrical/ \\
Computer
\end{tabular} & Mechanical \\
\hline 50 & 30 & 30 & 30 & 20 & 20 & 30 & 30 & 20 & 10 & 20 & 20 \\
\hline 100 & 40 & 40 & 40 & 30 & 30 & 40 & 40 & 30 & 20 & 30 & 30 \\
\hline 200 & 50 & 60 & 60 & 50 & 50 & 50 & 60 & 40 & 30 & 40. & 50 \\
\hline 500 & 80 & 90 & 90 & 80 & 80 & 90 & 90 & 60 & 50 & 70 & 70 \\
\hline 700 & 90 & 110 & 100 & 90 & 90 & 100 & 110 & 70 & 60 & 90 & 80 \\
\hline 1,000 & 110 & 130 & 120 & 110 & 110 & 130 & 130 & 80 & 80 & 110 & 90 \\
\hline 2,500 & 180 & 200 & 160 & 180 & 160 & 230 & 200 & 130 & -- & 240 & -- \\
\hline 5,000 & 250 & 270 & .- & 250 & 210 & -- & 270 & -- & -- & .- & -- \\
\hline 10,000 & 360 & 360 & -- & 360 & 230 & - & 360 & - & -- & - & -- \\
\hline 25,000 & 560 & 460 & -- & -- & -- & - & -- & -- & -- & - & -- \\
\hline 50,000 & 790 & . & -- & -- & -- & - & -- & -- & -- & - & -- \\
\hline
\end{tabular}

KEY: '--' = Not applicable
SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

Table A-8. Approximate standard errors of estimated number of Hispanic doctoral scientists and engineers by field of doctorate: 1995

KEY: ' \(-{ }^{-}\)' = Not applicable


SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{l}
\hline \multicolumn{7}{c}{ Table A-10. Approximate standard errors for estimated percents of women scientists } \\
and engineers: 1995
\end{tabular}

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
able A-11. Approximate standard errors for estimated percents of black scientists and engineers: 1995

Page 1 of 1
\begin{tabular}{r|r|r|r|r|r|r|r}
\hline \multirow{2}{*}{\begin{tabular}{c} 
Base number \\
of percent
\end{tabular}} & \multicolumn{7}{|c}{ Estimated percent } \\
\cline { 2 - 8 } & \multicolumn{1}{|c}{1 or 99} & \multicolumn{1}{|c}{2 or 98} & \multicolumn{1}{c}{5 or 95} & 10 or 90 & 15 or 85 & 25 or 75 & \multicolumn{1}{c}{50} \\
\hline 50 & 5.0 & 7.0 & 10.9 & 15.0 & 17.8 & 21.6 & 24.9 \\
100 & 3.5 & 4.9 & 7.7 & 10.6 & 12.6 & 15.3 & 17.6 \\
200 & 2.5 & 3.5 & 5.4 & 7.5 & 8.9 & 10.8 & 12.5 \\
500 & 1.6 & 2.2 & 3.4 & 4.7 & 5.6 & 6.8 & 7.9 \\
700 & 1.3 & 1.9 & 2.9 & 4.0 & 4.8 & 5.8 & 6.7 \\
1,000 & 1.1 & 1.6 & 2.4 & 3.3 & 4.0 & 4.8 & 5.6 \\
2,500 & 0.7 & 1.0 & 1.5 & 2.1 & 2.5 & 3.1 & 3.5 \\
5,000 & 0.5 & 0.7 & 1.1 & 1.5 & 1.8 & 2.2 & 2.5 \\
10,000 & 0.4 & 0.5 & 0.8 & 1.1 & 1.3 & 1.5 & 1.8 \\
\hline
\end{tabular}

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\left.\begin{tabular}{rl}
\hline \multicolumn{7}{c}{ Table A-12. Approximate standard errors for estimated percents of Asian scientists } \\
and engineers: 1995
\end{tabular}\(\right]\)

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline & & & & & & \multicolumn{2}{|r|}{Page 1 of 1} \\
\hline \multirow[t]{2}{*}{Base number of percent} & \multicolumn{7}{|c|}{Estimated percent} \\
\hline & 1 or 99 & 2 or 98 & 5 or 95 & 10 or 90 & 15 or 85 & 25 or 75 & 50 \\
\hline 50 & 4.9 & 6.9 & 10.8 & 14.8 & 17.7 & 21.4 & 24.7 \\
\hline 100 & 3.5 & 4.9 & 7.6 & 10.5 & 12.5 & 15.1 & 17.5 \\
\hline 200 & 2.5 & 3.5 & 5.4 & 7.4 & 8.8 & 10.7 & 12.4 \\
\hline 500 & 1.6 & 2.2 & 3.4 & 4.7 & 5.6 & 6.8 & 7.8 \\
\hline 700 & 1.3 & 1.9 & 2.9 & 4.0 & 4.7 & 5.7 & 6.6 \\
\hline 1,000 & 1.1 & 1.5 & 2.4 & 3.3 & 3.9 & 4.8 & 5.5 \\
\hline 2,500 & 0.7 & 1.0 & 1.5 & 2.1 & 2.5 & 3.0 & 3.5 \\
\hline 5,000 & 0.5 & 0.7 & 1.1 & 1.5 & 1.8 & 2.1 & 2.5 \\
\hline 10,000 & 0.3 & 0.5 & 0.8 & 1.0 & 1.2 & 1.5 & 1.7 \\
\hline
\end{tabular}

SOURCE: National Science Foundation/SRS, 1995 Survey of Doctorate Recipients

\section*{Appendix B.}

\section*{Survey Questionnaire}

\title{
SURVEY OF DOCTORATE RECIPIENTS
}

CONDUCTED BY THE NATIONAL RESEARCH COUNCIL FOR THE NATIONAL SCIENCE FOUNDATION BeST COPY AVAIIABLE


\section*{INSTRUCTIONS}

Thank you for taking the time to complete this questionnaire. Directions for filling it out are provided with each question. Because not all questions will apply to everyone, you may be asked to skip certain questions.
- In order to get comparable data, we will be asking you to refer to the week of April 15, 1995 (e.g., April 9-15, 1995), when answering most questions.
- Follow all "SKIP" instructions AFTER marking a box. If no "SKIP" instruction is provided, you should continue to the NEXT question.
- Either a pen or pencil may be used.
- When answering questions that require marking a box, please use an "X".
- If you need to change an answer, please make sure that your old answer is either completely erased or clearly crossed out.

Thanks again for your help, we really appreciate it.

\section*{PART A - Employment Status} During the Week of April 15, 1995

A1. Were you working for pay (or profit) during the week of April 15, 1995? This includes a postdoctoral appointment, being self-employed or temporarily absent from a job (e.g., ilness, vacation, or parental leave), even if unpaid.
Yes \(\rightarrow\) SKIP to A7, page 2
\(2 \square\) No

A2. (IF NO) Did you look for work at any time during the four weeks preceding April 15, 1995 (that is, any time between March 19 and April 15, 1995)?
\(1 \square\)Yes
\(2 \square\) No

A3. What were your reasons for not working during the week of April 15 ?

Mark (X) all that apply Year RetiredRetired \(\longrightarrow 19\) \(\qquad\)On layoff from a jobStudent

4Family responsibilities

5Chronic illness or permanent disability

6Suitable job not availableDid not need or want to work
8Other - Specify

A4. Prior to the week of April 15, 1995, when did you last work for pay (or profit)?

If never worked for pay (or profit) mark (X) in this box \(\rightarrow \square\) and SKIP to Part D, page 13


A5. What kind of work were you doing on this last job--that is, what was your occupation? Please be as specific as possible, including any area of specialization.

Example: College Professor - Electrical Engineering
\(\qquad\)
\(\qquad\)
\(\qquad\)

A6. Using the JOB CATEGORIES LIST (pages 16-17), choose the code that BEST describes the work you were doing on this last job.

CODE


A7. (IF WORKED DURING WEEK OF APRIL 15TH) Counting all jobs held during the week of April 15, 1995, did you USUALLY work ...
\(1 \square\)
A total of 35 or more hours
per week \(\rightarrow\) SKIP to A10
\(2 \square\)
Fewer than 35 hours per week

A8. (IF FEWER THAN 35 HOURS) During the week of April 15, did you want to work a full-time work week of 35 or more hours?
\(1 \square\) Yes
\(2 \square\)
No

A9. What were your reasons for working a parttime work week (i.e., less than 35 hours) the week of April 15?

Mark (X) all that apply

1
Retired or semi-retired \(\rightarrow 19\)
Suitable full-time work week job not available

6Did not need or want to work full-time
\(7 \square\) Other - Specify \(\longrightarrow\)

A10. (IF 35 OR MORE HOURS) Although you were working during the week of April 15, had you previously RETIRED from any position?

Examples of retirement include mandatory retirement, early retirement, or voluntary retirement
\(1 \square\)
\(Y\) Yes \(\rightarrow 19\) \(\qquad\) Year Retired
\(2 \square\)
No

Please answer the next series of questions for your PRINCIPAL job held during the week of April 15, 1995. A second job, if held, will be covered later.

A11. Who was your principal employer during the week of April 15, 1995?
IF MORE THAN ONE JOB: Record employer for whom you worked the most hours that week

IF EMPLOYER HAD MORE THAN ONE LOCATION: Record location where you usually worked

Employer Name

City/Town

State/Foreign Country

Zip Code

A12. Counting all locations where this employer operates, how many people work for your principal employer? Your best estimate is fine.
Mark (X) one
1Under 10 employees
\(2 \square\)10-24 employees
\(3 \square \quad 25\) to 99 employees
4 [
100-499 employees500-999 employees
\(6 \square\) 1,000-4,999 employees
\(7 \square\) 5,000+employees

A13. Was your principal employer during the week of April 15...

IF EMPLOYER WAS A SCHOOL: Mark ( \(X\) ) the type of organizational charter (e.g., mark "State government" for state schools, most private schools are "private not-for-profit")

Mark ( \(X\) ) one
\(1 \square\) A PRIVATE-FOR-PROFIT company, business or individual, working for wages, salary or commissionsA PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization
\(3 \square\) SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm
\(4 \square\) SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm
\(5 \square\) Local GOVERNMENT (city, county, etc.) State GOVERNMENT
\(7 \square\) U.S. military service, active duty or Commissioned Corps (e.g., USPHS, NOAA)

8 U.S. GOVERNMENT (civilian employee)

9 Other - Specify \(\downarrow\)

A14. Was your principal employer an educational institution?


A15. (IF EDUCATIONAL INSTITUTION) Was this educational institution...

Mark ( \(X\) ) one
\(1 \square\) A preschool, elementary, or middle school or system


3A 2 -year college, junior college, or technical institute

4A 4-year college or university, other than a medical school

5
\(\square\) A medical school (including universityaffiliated hospital or medical center)

6
\(\square\) A university-affiliated research institute
7Other - Specify \(\qquad\)

A16. What was your faculty rank?
Mark ( \(X\) ) one
\(1 \square\) Not applicable at this institution
\(2 \square \quad\) Not applicable for my position
3Professor
4Associate Professor

5Assistant Professor
6Instructor
7Lecturer
8Adjunct Faculty
9Other - Specify

\section*{A17. What was your tenure status?}

Mark ( \(X\) ) one
\(1 \square\)
Not applicable: no tenure system at this institution
\(2 \square\)
Not applicable: no tenure system for my position
\(3 \square\) Tenured
4 On tenure track but not tenured Not on tenure track

A18. What kind of work were you doing on your principal job held during the week of April 15, 1995-that is, what was your occupation? Please be as specific as possible, including any area of specialization.

Example: College Professor - Electrical engineering
\(\qquad\)
\(\qquad\)
A19. Using the JOB CATEGORIES LIST (pages 1617), choose the code that BEST describes the work you were doing on your principal job during the week of April 15.

CODE


A20. Did you record job code "141" (manager, executive, or administrator) in A19?Yes
\(2 \square \quad\) No \(\rightarrow\) SKIP to A22

A21. (IF YES) Did your duties on this job require the technical expertise of a bachelor's degree or higher in -

Mark (X) Yes or No for each

1. Engineering, computer science, math or the natural sciences. 1\(2 \square\)
2. The social sciences \(\qquad\) 12
3. Some other field (for example, health or business) - Specify \(\rceil \quad 1 \square \quad 2 \square\)

A22. During what month and year did you start this job (that is, your principal job held during the week of April 15, 1995)?

JOB STARTED


Month 19


A23. As of the week of April 15, were you licensed or certified in your occupation?

Do NOT include academic degrees (e.g., BA, MA, PhD)
\(1 \square\)Yes
\(2 \square\) No

A24. Thinking about the relationship between your work and your education, to what extent was your work on your principal job held during the week of April 15 related to your first doctoral degree awarded in the U.S.? Was it . . .

Mark (X) one

\(\square\) Not related

A25. (IF NOT RELATED) Did these factors influence your decision to work in an area OUTSIDE THE FIELD OF YOUR FIRST U.S. DOCTORAL DEGREE?

Mark (X) Yes or No for each

1. Pay, promotion opportunities \(\qquad\) 1\(2 \square\)
2. Working conditions (hours, equipment, working environment). .. 1\(2 \square\)
3. Job location \(\qquad\) 1 2
4. Change in career or professional interests \(\qquad\) .. 1
5. Family-related reasons (children, spouse's job moved) \(\qquad\) .1 \(\square\) 2
6. Job in doctoral degree field not available \(\qquad\) 1 \(\square\) \(2 \square\)
7. Other reason - Specify 1 \(\square\) \(2 \square\)

A26. Which TWO factors in A25 represent your MOST important reasons for working in an area outside the field of your first U.S. doctoral degree? Enter number of appropriate REASONS from A25 above.
1. \(\qquad\) MOST important reason
2. \(\qquad\) SECOND MOST important reason (Enter " 0 " if no second most)

A27. The next question is about your work activities on your principal job. Which of the following work activities occupied 10 percent or more of your time during a TYPICAL work week on this job?

Mark (X) Yes or No for each
1. Accounting, finance, contracts

2. Applied research - study directed toward gaining scientific knowledge to meet a recognized need \(\qquad\) 1 \(2 \square\)
3. Basic research - study directed toward gaining scientific knowledge primarily for its own sake \(\qquad\) 1 \(2 \square\)
4. Computer applications, programming, systems development \(\qquad\)
gained from research for the production of materials, devices \(\qquad\) \(1 \square\) \(2 \square\)
6. Design of equipment, processes, structures, models 1 \(\square 2 \square\)
7. Employee relations - including recruiting, personnel development, training
8. Managing and supervising \(\qquad\) \(1 \square\) \(2 \square\)
9. Production, operations, maintenance (e.g., truck driving, machine tooling, auto/machine repairing) \(\qquad\)
\(\square\) \(2 \square\)
10. Professional services (health care, counseling, financial services, legal services, etc.) \(\qquad\) . .1 \(2 \square\)
11. Sales, purchasing, marketing, customer service, public relations \(\qquad\) 12
12. Quality or productivity management
13. Teaching \(\qquad\) 1\(2 \square\)
14. Other - Specify\(2 \square\)

A28. On which TWO activities in A27, did you work the MOST hours during a typical week on this job? Enter number of appropriate ACTIVITY from A27 above.
1.

2.


Activity MOST hours

Activity SECOND MOST hours (Enter "0" if no second most)

A29. In A28, did you record " 2 " or " 3 " or " 5 " or " 6 " (applied/basic research or development/ design)?
\(-1\) Yes
\(2 \square\) No \(\rightarrow\) Skip to \(A 31\)

A30. (IF YES) In what field was your research-related work being conducted?

Field: \(\qquad\)

A31. During a typical week on this job, in which, if any, of the following areas or technologies, were you working?

Mark (X) Yes or No for each
Yes No

1. Flexible manufacturing, robotics \(\qquad\) \(\square\) \(2 \square\)
2. Advanced materials \(\qquad\) .1
3. Biotechnology \(\qquad\) .1
4. Micro or opto-electronics, Semiconductor devices \(\qquad\)
\(\qquad\) 1\(2 \square\)
5. High performance computing \(\qquad\) .1 \(\square\) 2
6. Software producibility \(\qquad\) 1
7. Sensor and signal processing2

A32. Since April 1990, how many ...
If NONE, enter "0"
Number
1. Papers have you authored or coauthored for presentation at regional, national or international conferences?
(Do not count presentations of the same work more than once)
2. Articles that you have authored or
co-authored have been accepted for publication in a refereed professional journal?

Number

A33. Since April 1990, have you been named as an inventor on any application for a U.S. patent?
\(-1\)YesNo \(\rightarrow\) SKIP to A35

A34. (IF YES) Since April 1990 . Number
1. How many applications for U.S. patents have named you as inventor? \(\qquad\)
\(\qquad\)
2. How many U.S. patents have been granted to you as an inventor?
3. How many of the patents recorded as GRANTED (recorded in category 2 above) have resulted in commercialized products or processes or have been licensed?

A35. Did you supervise the work of others as part of your principal job held during the week of April 15, 1995?

Answer "YES" if you assigned duties to workers AND recommended or initiated personnel actions such as hiring, firing, or promoting

TEACHERS: Do NOT count studentsYes
\(2 \square\)
No \(\rightarrow\) SKIP to A37
A36. (IF YES) How many people did you typically... IF NONE, enter " 0 "

Number supervised
1. supervise DIRECTLY?..
2. supervise through subordinate supervisors?

A37. Before deductions, what was your basic ANNUAL salary on this job as of the week of April 15, 1995 ? (Do NOT include bonuses, overtime, or additional compensation for summertime teaching or research)

IF NOT SALARIED, please estimate your earned income, excluding business expenses.
\$

A38. During a typical week on this job, how many hours did you usually work?

Number of Hours Per Week

A39. Including paid vacation and paid sick leave, upon how many weeks per year was your salary based?

Number of Weeks Per Year
A40. During the week of April 15, 1995, was any of your work on this job supported by CONTRACTS OR GRANTS from the U.S. government?

FEDERAL EMPLOYEES, please answer "No"
Mark (X) one


A41. (IF YES) Which Federal agencies or departments were supporting your work?

Mark (X) all that apply
\(1 \square\) Agency for International Development (AID)Agriculture Department
3 \(\square\) Commerce Department
\(4 \square\) Defense Department (DOD)
5 Department of Education (include NCES, OERI, FIPSE, FIRST)
6■ Energy Department (DOE)
7 Environmental Protection Agency (EPA)Health and Human Services Department (EXCLUDING NIH)
\(9 \square\) Interior Department
\(10 \square\) National Aeronautics and Space Administration (NASA)
\(11 \square\) National Institutes of Health (NIH)
National Science Foundation (NSF)Transportation Department (DOT)Other - Specify \(\downarrow\)

DON'T KNOW SOURCE AGENCY

The following 3 questions provide information for the U.S. Department of Energy

A42. From the following list of selected areas, indicate the ONE area, if any, to which you devoted the MOST hours during a typical week on this job.

Mark ( \(X\) ) one


A43. (IF ENERGY OR FUEL) From the following list, indicate the ONE ENERGY SOURCE that involved the largest proportion of your energyrelated work during the past year.

Mark ( \(X\) ) one
\(1 \square\)
Coal
\(2 \square\) Petroleum and natural gas
\(3 \square\) Nuclear fission
4 \(\square\) Nuclear fusion
\(5 \square\)
Hydroenergy
\(6 \square\)
Other renewables (such as solar,
biomass, wind, geothermal)
\(7 \square\)
Other energy source - Specify \(\downarrow\)

A44. From the following list, indicate the ONE ENERGY-RELATED ACTIVITY that involved the largest proportion of your energy-related work during the past year.

Mark ( \(X\) ) oneExploration and extraction
Manufacture of energy-related equipment
Fuel processing (include refining and enriching)
\(4 \square\)
Electric power generation and transmission
Transportation and distribution of fuel
Waste management or decommissioning
Conservation, utilization, management or storage of energy or fuelEnvironment, health, and safety
Other energy-related activity - Specify \(\downarrow\)

A45. During the week of April 15, 1995, were you working for pay (or profit) at a second job (or business), including part-time, evening, or weekend work?


A46. (IF YES) What kind of work were you doing at your second job during the week of April 15-that is, what was your occupation? Please be as specific as possible, including any area of specialization.

Example: College professor - Electrical engineering
IF YOU HAD MORE THAN TWO JOBS that week answer for the job where you worked the second most hours

A47. Using the JOB CATEGORIES LIST (pages 16-17) choose the code that BEST describes the work you were doing on your second job during the week of April 15.

CODE


A48. To what extent was your work on this second job related to your first doctoral degree awarded in the U.S.? Was it -

Mark ( \(X\) ) one
\(1 \square\)
Closely relatedSomewhat related
\(3 \square\)
Not related

Questions A49-A51 ask about your work for pay (or profit) in 1994

A49. Turning now to 1994, including paid vacation and paid sick leave, how many weeks did you work in 1994?

IF NONE, MARK (X) THIS BOX \(\rightarrow \square\) AND SKIP TO B1

Number of Weeks Worked

A50. During the weeks you worked in 1994, how many hours a week did you usually work?

Number of Hours Worked \(\qquad\)

A51. Counting all jobs held, what was your TOTAL EARNED income, BEFORE deductions, for 1994?

Include all wages, salaries, bonuses, overtime, commissions, consulting fees, net income from business, summertime teaching or research, post doctoral appointment, or other work associated with scholarships.
\$
Total 1994 Earned Income

IF YOU HAD NO EARNED
INCOME IN 1994, MARK (X) THIS BOX \(\rightarrow \square\)

\section*{PART B - Past Employment}

The next few questions will help us better understand employment changes over time.

B1. Were you working for pay (or profit) during BOTH of these time periods--the week of April 15, 1993 AND the week of April 15, 1995?
If you were a STUDENT: Do NOT count financial aid awards with no work requirement.

\section*{\(\square\)}Yes
\(2 \square\) No \(\rightarrow\) SKIP to Part C, page 9

B2. (IF YES) During these two time periods--the week of April 15, 1993 and the week of April 15, 1995--were you working for ...

Mark ( \(X\) ) one
\(1 \square\) Same employer AND same job \(\rightarrow\) SKIP to Part C, page 9
\(2 \square\) Same employer BUT different job
\(3 \square \quad\) Different employer BUT same job
\(4 \square\) Different employer AND different job
B3. (IF DIFFERENT) Why did you change your employer or your job?

Mark (X) Yes or No for each
1. Pay, promotion opportunities \(\qquad\) .
\begin{tabular}{cc} 
Yes & No \\
\(\downarrow\) & \(\downarrow\)
\end{tabular}
2. Working conditions (hours, equipment, working environment) .. \(1 \square\)
3. Job location \(\qquad\)
4. Change in career or professional interests \(\qquad\) \(1 \square\)
5. Family-related reasons (e.g., children, spouse's job moved) \(\qquad\) \(1 \square\)
6. School-related reasons (e.g., returned to school, completed a degree) \(\qquad\)

7. Laid off or job terminated (includes company closings, mergers, buyouts) \(\qquad\)
8. Retired \(\qquad\) .1
9.

\(\qquad\) \(1 \square\)

The next few questions ask about your work experience since completing your (first) doctoral degree.
C1. Please review the JOB CATEGORIES LIST on pages 16-17. Using that list, please record codes in Column 1 for those job categories where you have had ONE OR MORE YEARS OF WORK EXPERIENCE since completing your (first) doctoral degree (a single job category code can represent several jobs). Next, complete Columns 2-5 for each job category recorded in Column 1.

Example: Chris was a regional sales director for a computer hardware company between 1980 and 1986. In 1986 she was offered a job teaching marketing at a local college, something she had always wanted to try and that would allow more time with her family. Between 1986 and 1995, she had taught at three different colleges. Chris would enter:
\begin{tabular}{lclccc|} 
Row & Col 1 1 & \multicolumn{1}{c}{ Col 2 } & Col 3 & Col 4 & Col 5 \\
First & 141 & Sales Director, computer hardware company & 1980 and 1986 & 6 years & 3,4 \\
Second & 274 & Professor - Marketing & 1986 and 1995 & 9 years & 9 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{5}{|c|}{WORK EXPERIENCE SINCE (FIRST) DOCTORAL DEGREE} \\
\hline \begin{tabular}{l}
Col 1 \\
Job Category Codes \\
(pages 16-17) \\
Group jobs by job category codes, only use a job category code ONCE \\
If more than 3 job category codes apply: Pick the 3 where you have worked the longest
\end{tabular} & \begin{tabular}{l}
Col 2 \\
Brief Description of Work Done
\end{tabular} & \begin{tabular}{l}
Col 3 \\
Starting and Ending Dates \\
Working continually in the same job category between the two dates is not necessary
\end{tabular} & \begin{tabular}{l}
Col 4 \\
Total Years of Work Experience \\
Estimate using full-time equivalency (FTE)
\end{tabular} & \begin{tabular}{l}
Col 5 \\
Two Most Important Reasons for Leaving \\
Write appropriate numbers from the "Reasons for Leaving" box below
\end{tabular} \\
\hline  & & 19 &  & \begin{tabular}{l}
\(\square\) \\
Most 2nd Most important imporiant \\
(Specify for category 10) \(\qquad\)
\end{tabular} \\
\hline  & & 19 &  & \begin{tabular}{l}
\(\square\) Most 2nd Most important \(\square\) important \\
(Specify for category 10) \(\qquad\)
\end{tabular} \\
\hline  & & 19 &  & \begin{tabular}{l}
\(\square\) \\
Most \\
2nd Most important important \\
(Specify for category 10) \(\qquad\)
\end{tabular} \\
\hline
\end{tabular}

\section*{REASONS FOR LEAVING (for use in Column 5 above)}
1. Pay, promotion, benefits
2. Working conditions (hours, equipment, working environment)

3 Change in career/professional interests
4. Family (children, spouse's job moved)
5. School (completed degree, returned to school, etc.)
6. Did not enjoy the work
7. Job ended/suitable job in my field not available
8. Retired
9. Still working in that field
10. Other - Specify above

C2. Since completing your (first) doctoral degree, have you had any periods of 6 . months or more where you were not working?

1Yes
\(2 \square\)
No \(\rightarrow\) SKIP to C4

C3. (IF YES) Please provide the following information for each period of \(\mathbf{6}\) months or longer. Your best guess is fine.


C4. How much would (or does) your work benefit from each of the following?

Mark ( \(X\) ) one for each

2. Short-term visits to nonU.S. locations (days or weeks in duration) \(\qquad\) 1 \(\square\) 2 \(\square\) \(3 \square\)
3. Long-term visits to nonU.S. locations ( 6 -months to 1 or 2 years in duration) 12\(3 \square\)

C5. Since completing your doctorate, have you ever traveled outside the United States to work or conduct research in your field?

DO NOT include international conferences.
\(1 \square\)
Yes \(\rightarrow\) Go tó C6
\(2 \square\)
No \(\rightarrow\) SKIP to C7

C6. (IF YES) How long was your last trip outside the United States to work or conduct research?
\(\begin{array}{ll}1 \square & \text { Less than } 7 \text { days } \\ 2 \square & 7 \text { to } 30 \text { days } \\ 3 \square & 1 \text { to } 6 \text { months } \\ 4 \square & \text { More than } 6 \text { months }\end{array}\)\(\rightarrow \begin{aligned} & \text { SKIP to } C 8, \\ & \text { page } 11 .\end{aligned}\)
C7. (IF NO) Why haven't you worked or conducted research outside the United States?

Mark (X) all that applyNot relevant to my career
\(2 \square\) No interest
\(3 \square\) No time
\(4 \square\) Unable to identify host institution
\(5 \square\) Concerned about losing my place in U.S. job market
\(6 \square\) Unaware of funding sources
\(7 \square \quad\) Lack of foreign language skills
8Family-related reasons
\(9 \square\) Other - Specify: \(\square\)

C8. Since completing your (first) doctoral degree how many "postdocs," if any, have you held? A "postdoc" (postdoctoral appointment) is a temporary position awarded in academe, industry, or government primarily for gaining additional education and training in research.

NUMBER
OR IF NONE, MARK THIS BOX \(\rightarrow \square\) AND SKIP to C12

C9. Please provide the following information for each postdoc recorded in C8. Please include any postdocs you might currently hold.


C10. Was your principal job during the week of April 15 a postdoc position?
\(1 \square\) Yes \(\rightarrow\) SKIP to C12
\(\nabla^{2}\) \(\qquad\) No

C11. How relevant was your (most recent) postdoc to your work on your principal job held during the week of April 15?
IF NOT WORKING FOR PAY OR PROFIT THE WEEK OF APRIL 15: Use your "last job"
Mark ( \(X\) ) one for each
A

2. Use of specific skills or techniques? \(\qquad\) 12 \(\square\) 3
3. Contacts established with colleagues in your field?..2 \(\square\) 3
4. Use of specialized equipment? \(\qquad\) \(1 \square\) 2 3
5. General approach or problem solving skills?23
6. Something else? - Specify \(\downarrow \square \quad 2 \square \quad 3\)

C12. During the past year, did you attend any professional society or association meetings or conferences?

Include regional, national, or international meetings
1Yes
\(2 \square\)
No
C13. To how many national or international professional societies or associations do you currently belong?

Number
- OR \(\square\) NONE

C14. During the past year, did you attend any WORKRELATED workshops, seminars, or other work-related training activities?

Do NOT include college courses - these will be discussed in PART D.
Do NOT include professional meetings unless you attended a special training session conducted at the meeting/conference.
\(1 \square\) Yes \(\rightarrow\) GO to C15
\(2 \square\) No \(\rightarrow\) SKIP to Part D, page 13

C15. (IF YES) During the past year, in which of the following areas did you attend work-related workshops, seminars, or other work-related training activities?

Mark (X) Yes or No for each
1. Management or supervisor training
\begin{tabular}{cr} 
Yes & No \\
\(\downarrow\) & \(\downarrow\) \\
. .1 & \(\square\)
\end{tabular}
2. Training in your occupational field \(\qquad\) .12
3. General professional training (e.g., public speaking, business writing)

1 2
4. Otherwork-related training - Specify \(-\downarrow^{1}\)

C16. For which of the following reasons did you attend training activities during the past year?

Mark (X) Yes or No for each
1. To facilitate a change in your occupational field. . .1 Yes No
2. To gain FURTHER skills or knowledge in your occupational field \(\qquad\) 1
3. For licensure/certification \(\qquad\) .1 \(\qquad\)
4. To increase opportunities for promotion/advancement/higher salary \(\qquad\) \(1 \square\)
5. To learn skills or knowledge needed for a recently acquired position \(\qquad\)
6. Required or expected by employer \(1 \square 2\)
7.
. Other - Specify \(\longrightarrow\) \(\qquad\) .1
\(\qquad\)
C17. What was your most important reason for attending training activities? Enter number of appropriate REASON from C16 above
\(\qquad\) Most IMPORTANT REASON from C16

\section*{PART D - Background Information}

D1. Between April 1993 and April 1995, did you take any college or university courses or enroll in a college or university for other reasons, such as completing another Master's or PhD?
\(\left[\begin{array}{rl}1 & \square \text { Yes } \\ 2 & \square \text { No } \rightarrow \text { SKIP to D10, page } 14\end{array}\right.\)
D2. (IF YES) In which college or university department were you primarily taking classes or doing research, etc., (e.g., English, chemistry)?

DEPARTMENT:

D3. Between April 1993 and April 1995, did you complete a degree or certificate?
\([1 \square\) Yes
\(2 \square \mathrm{No} \rightarrow\) SKIP to \(D 7\)
D4. (IF YES) In what month and year was this degree or certificate awarded?

IF YOU COMPLETED MORE THAN ONE: Enter the date for the highest degree or certificate awarded


Month 19


D5. What type of degree or certificate did you receive?

IF MORE THAN ONE APPLIES: Mark the highest level

Mark (X) one

1Bachelor's degreePost baccalaureate certificate
3 Master's degree (including MBA)

4Post master's certificate
5DoctorateOther professional degree (e.g., JD, LLB, THD, MD, DDS, etc.)

7Other - Specify \(\downarrow\)

D6. From which academic institution did you receive this degree or certificate?

School name:
City/Town:
State/Foreign country: \(\qquad\)
D7. What was your primary field of study during that time?

IF NO PRIMARY FIELD OF
STUDY, MARK ( \(X\) ) THIS BOX \(\rightarrow \square\)
Primary Field
of Study:
D8. For which of the following reasons were you taking classes or enrolled between April 1993 and April 1995?

Mark (X) Yes or No for each Yes No
1. To gain further education before beginning a career \(\qquad\) 1

2. To prepare for graduate school 1
3. To change your academic or occupational field \(\qquad\) .1 2
4. To gain FURTHER skills or knowledge in your academic or occupational field \(\qquad\) .12
5. For licensure/certification \(\qquad\) 1
6. To increase opportunities for promotion/advancement/higher salary \(\qquad\) .1 2
7. Required or expected by employer 12
8. For leisure/personal interest \(\qquad\) 12
9. Other-Specify \(\downarrow\) \(1 \square\) 2

D9. Were ANY of your school-related costs for taking college or university courses during this time paid by an employer?

D10. As of the week of April 15 were you -
Mark (X) one


Married
Widowed
Separated
Divorced
Never Married


D11. (IF MARRIED) During the week of April 15, was your spouse working for pay (or profit) at a full-time or part-time job?
\(1 \square\)
Yes, full-time
\(2 \square\)
Yes, part-timeNo \(\rightarrow\) SKIP to D13

D12. (IF YES) Did your spouse's duties on this job require the technical expertise of a bachelor's degree or higher in. .
Mark \((X)\) Yes or No for each Yes No
1. Engineering, computer science, math, or the natural sciences \(\qquad\) 12
2. The social sciences \(\qquad\) .1 \(\square\) 2
3. Some other field (e.g., health or business) - Specify \(\downarrow\) ... 1 \(1 \square\)


D13. During the week of April 15, did you have any children living with you as part of your family?

Only count children who lived with you at least 50 percent of the time.

1\(\mathrm{Yes} \rightarrow\) GO to \(D 14\)
2No \(\rightarrow\) SKIP to D15

D14. (IF YES). How many of these children living with you as part of your family were -

If no children in a category, enter " 0 " \(\begin{aligned} & \text { Number of } \\ & \text { children }\end{aligned}\)
1. Under age 2 \(\qquad\)
\(\qquad\)
2. Aged \(2-5\) \(\qquad\)
3. Aged 6-11 \(\qquad\)
\(\qquad\)
4. Aged \(12-17\) \(\qquad\)
\(\qquad\)
5. Aged 18 or older \(\qquad\)

D15. During the week of April 15, 1995, were you living in the United States or one of its territories or were you living in another country?United States or one of its territoriesAnother country

D16. As of the week of April 15, were you a ... Mark ( \(X\) ) one

\section*{U.S. Citizen}

1

\(\qquad\) \(\rightarrow\) SKIP to 018

\section*{Non-U.S. Citizen}
\(-1\)With a Permanent U.S. Resident Visa

2 With a Temporary U.S. Resident Visa 3Living outside the United States

D17. (IF A NON-U.S. CITIZEN) Of which country are you a citizen?

COUNTRY: \(\qquad\)

D18. What is your birthdate?

Month

Day
19

The next question is designed to help us better understand the career paths of individuals with different physical abilities.
D19. What is the USUAL degree of difficulty you have with -
1. SEEING words or letters in ordinary newsprint (with glasses/contact lenses if you usually wear them) \(\qquad\)
\begin{tabular}{ccccc}
\hline \multicolumn{5}{c|}{ MARK (X) ONE FOR EACH } \\
\hline None & Slight & Moderate & Severe & Unable to Do \\
\(\downarrow\) & \(\downarrow\) & \(\downarrow\) & \(\downarrow\) & \(\downarrow\) \\
\(1 \square\) & \(2 \square\) & \(3 \square\) & \(4 \square\) & \(5 \square\)
\end{tabular}
2. HEARING what is normally said in conversation with another person (with a hearing aid, if you usually wear one) \(\qquad\) \(1 \square\)
3. WALKING without human or mechanical assistance or using stairs \(\qquad\) 1\(3 \square\)
\(5 \square\)
4. LIFTING or carrying something as heavy as 10 pounds, such as a bag of groceries \(\qquad\) \(1 \square\) \(\square\)

\section*{JOB CATEGORIES LIST}

This list is ordered ALPHABETICALLY. The titles in bold type are broad job categories. To make sure you have found the BEST code, please review ALL broad categories before making your choice. If you cannot find the code that BEST describes your job, use the "OTHER" code under the most appropriate broad category in bold print. If none of the codes fit your job, use Code 500.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{010} & \multirow[t]{3}{*}{Artists, Broadcasters, Editors, Entertainers, Public Relations Specialists, Writers} & & *** & Engineers (continued) \\
\hline & & & 087 & Computer engineer - hardware \\
\hline & & & 088 & Computer engineer - software \\
\hline & \multicolumn{2}{|l|}{Biological/Life Scientists} & 089 & Electrical, electronic engineer \\
\hline 021 & \multicolumn{2}{|l|}{Agricultural and food scientists} & 090 & Environmental engineer \\
\hline 022 & \multicolumn{2}{|l|}{Biochemists and biophysicists} & 091 & Industrial engineer \\
\hline \multirow[t]{2}{*}{023} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Biological scientists (e.g., botanists, ecologists, zoologists)}} & 092 & Marine engineer or naval architect engineer \\
\hline & & & 093 & Materials or metallurgical engineer \\
\hline 024 & \multicolumn{2}{|l|}{Forestry, conservation scientists} & 094 & Mechanical engineer \\
\hline 025 & \multicolumn{2}{|l|}{Medical scientists (excluding practitioners)} & 095 & Mining or geological engineer \\
\hline \multirow[t]{2}{*}{026} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Technologists and technicians in the biological/life sciences}} & 096 & Nuclear engineer \\
\hline & & & 097 & Petroleum engineer \\
\hline \multirow[t]{3}{*}{027} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{OTHER biological/life scientists}} & 098 & Sales engineer \\
\hline & & & 099 & Other engineers \\
\hline & \multicolumn{2}{|l|}{Clerical/Administrative Support} & \multicolumn{2}{|l|}{Engineering Technologists and Technicians} \\
\hline 031 & \multicolumn{2}{|l|}{Accounting clerks, bookkeepers} & 100 & Electrical, electronic, industrial, mechanical \\
\hline 032 & Secretaries, receptionists, typists & & 101 & Drafting occupations, including computer drafting \\
\hline \multirow[t]{2}{*}{033} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{OTHER administrative (e.g., record clerks, telephone operators)}} & 102 & Surveying and mapping \\
\hline & & & 103 & OTHER engineering technologists and technicians \\
\hline \multirow[t]{4}{*}{040} & \multicolumn{2}{|l|}{Clergy and Other Religious Workers 104} & \multicolumn{2}{|l|}{Surveyors} \\
\hline & \multicolumn{2}{|l|}{\multirow[t]{3}{*}{\begin{tabular}{l}
Computer Occupations \\
(Also see 173)
\end{tabular}}} & \multicolumn{2}{|l|}{\multirow[t]{3}{*}{Farmers, Foresters \& Fishermen}} \\
\hline & & & & \\
\hline & & & & \\
\hline & Computer engineers (See 087, 088 under Engineering) & \multirow[t]{2}{*}{111} & \multicolumn{2}{|l|}{Health Occupations} \\
\hline 05 & Computer programmers (business, scientific, process control) & & \[
\begin{aligned}
& \text { Diag } \\
& \text { (e.g. }
\end{aligned}
\] & dentists, optometrists, physicians, \\
\hline 052 & \multicolumn{2}{|l|}{Computer system analysts 112} & \multicolumn{2}{|l|}{psychiatrists, podiatrists, surgeons, veterinarians)} \\
\hline 053 & \multicolumn{2}{|l|}{Computer scientists, except system analysts 112} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Registered nurses, pharmacists, dieticians, therapists, physician assistants}} \\
\hline 054 & \multicolumn{2}{|l|}{Information systems scientists or analysts} & & \\
\hline 055 & OTHER computer, information science occupations & \multirow[t]{2}{*}{113} & Psychologists, including clinical & Health Technologists \& Technicians \\
\hline *** & Consultants (select the code that comes closest to your usual area of consulting) & & \multicolumn{2}{|l|}{(e.g., dental hygienists, health record technologists/ technicians, licensed practical nurses, medical or laboratory technicians, radiologic technologists/} \\
\hline \multirow[t]{3}{*}{070} & \multicolumn{2}{|l|}{Counselors, Educational and Vocational} & \multicolumn{2}{|l|}{technicians)} \\
\hline & (Also see 236) & 114 & \multicolumn{2}{|l|}{OTHER health occupations} \\
\hline & Engineers, Architects, Surveyors & 120 & \multicolumn{2}{|l|}{Lawyers, Judges} \\
\hline \multirow[t]{2}{*}{***} & \multicolumn{4}{|l|}{Architects} \\
\hline & Engineers (Also see 100-103) & \multirow[t]{4}{*}{130} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Librarians, Archivists, Curators}} \\
\hline \multirow{7}{*}{**} & 082 Aeronautical, aerospace, astronautical engineer & & & \\
\hline & Agricultural engineer & & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Managers, Executives, Administrators (Also see 151-153)}} \\
\hline & 084 Bioengineering and biomedical engineer & & & \\
\hline & 085 Chemical engineer & \multirow[t]{2}{*}{141} & \multicolumn{2}{|l|}{\multirow[t]{4}{*}{\begin{tabular}{l}
Top and mid-level managers, executives, administrators (people who manage other managers) \\
All other managers, including the self-employed - Select the code that comes closest to the field you manage
\end{tabular}}} \\
\hline & \multirow[t]{3}{*}{086 Civil, including architectural and sanitary engineer} & & & \\
\hline & & \multirow[t]{2}{*}{***} & & \\
\hline & & & & \\
\hline
\end{tabular}

\section*{JOB CATEGORIES LIST (continued)}

\section*{Management-Related Occupations}
(Also see 141)
Accountants, auditors, and other financial specialists
Personnel, training, and labor relations specialists
OTHER management related occupations

\section*{Mathematical Scientists}

Actuaries
Mathematicians
Operations research analysts, modeling
Statisticians
Technologists and technicians in the mathematical sciences
OTHER mathematical scientists

\section*{Physical Scientists}

Astronomers
Atmospheric and space scientists
Chemists, except biochemists
Geologists, including earth scientists
Oceanographers
Physicists
Technologists and technicians in the physical sciences
OTHER physical scientists

\section*{Research Associates/Assistants}
(Select the code that comes closest to your field)

\section*{Sales and Marketing}

Insurance, securities, real estate, and business services
Sales Occupations - Commodities Except Retail
(e.g., industrial machinery/equipment/supplies, medical and dental equipment/supplies)
202 Sales Occupations - Retail
(e.g., furnishings, clothing, motor vehicles, cosmetics)

OTHER marketing and sales occupations

\section*{Service Occupations, Except Health}
(Also see 111-114)
Food Preparation and Service (e.g., cooks, waitresses, bartenders)
Protective services (e.g., fire fighters, police, guards)
OTHER service occupations, except health

\section*{Social Scientists}

Anthropologists
Economists
Historians, science and technology
Historians, except science and technology
Political scientists
Psychologists, including clinical (Also see 070)
Sociologists
OTHER social scientists

\section*{Teachers/Professors}

251
252
253
254
255
256
257
***
OTHER precollegiate area
Postsecondary
271 Agriculture
272 Art, Drama, and Music
273 Biological Sciences
274 Business Commerce and Marketing
275 Chemistry
276 Computer Science
277 Earth, Environmental, and Marine Science
278 Economics
279 Education
280 Engineering
281 English
282 Foreign Language
283 History
284 Home Economics
285 Law
286 Mathematical Sciences
287 Medical Science
288 Physical Education
289 Physics
290 Political Science
291 Psychology
292 Social Work
293 Sociology
294 Theology
295 Trade and Industrial
296 OTHER health specialties
297 OTHER natural sciences
298 OTHER social sciences
299 OTHER Postsecondary

\section*{Other Professions}

Construction trades, miners and well drillers
Mechanics and repairers
Precision/production occupations
(e.g., metal workers, woodworkers, butchers, bakers, printing occupations, tailors, shoemakers, photographic process)
Operators and related occupations
(e.g., machine set-up, machine operators and tenders,
fabricators, assemblers)
405 Transportation/material moving occupations
500 Other Occupations (Not Listed)

Social Workers

D25. Is the name and address information below the best one for us to use in future mailings?


Title
First Name
Middle Initial
Last Name

\section*{THANK YOU FOR COMPLETING THE QUESTIONNAIRE.}

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