

**Table D-1. U.S. scientists and engineers, by detailed occupation and highest degree attained: 1993**

Occupation	Level of highest degree				
	All degree levels, total	Bachelor's	Master's	Doctorate	Professional
<b>All occupations, total</b> <sup>1</sup> .....	11,578,200	6,948,800	3,002,400	706,100	920,900
<b>S&amp;E occupations, total</b> .....	3,786,100	2,293,600	1,013,600	439,400	39,500
<b>Scientists, total</b> .....	2,140,900	1,122,700	615,600	367,100	35,500
<b>Computer/math sci, total</b> .....	1,065,900	720,300	290,100	52,400	3,200
<b>Computer/information scientists</b> .....	926,000	674,300	230,300	18,500	2,900
Computer engineers-software ...	191,100	124,100	60,800	5,700	400
Computer scientists, except systems analysts .....	36,400	18,600	13,700	4,100	S
Computer systems analysts .....	335,400	262,400	68,800	3,100	1,100
Information systems scientists/analysts .....	135,900	97,700	35,600	2,300	400
Other computer/information science occupations .....	227,200	171,500	51,400	3,400	1,000
<b>Mathematical scientists</b> .....	55,200	24,900	22,000	8,200	100
Mathematicians .....	6,400	2,300	1,900	2,200	S
Operations research analysts, modelling .....	21,300	11,000	8,000	2,300	S
Statisticians .....	23,900	10,400	10,200	3,200	100
Other mathematical scientists ...	3,500	1,100	1,900	500	S
<b>Postsecondary teachers-computer math sci</b> .....	84,700	21,200	37,700	25,600	200
Computer science teachers .....	28,200	10,200	11,600	6,300	100
Math science teachers .....	56,500	11,000	26,100	19,300	100
<b>Life/related scientists, total</b> .....	379,000	159,900	85,100	111,400	22,700
<b>Agricultural/food scientists</b> .....	52,500	31,200	11,700	9,500	100
<b>Biological scientists</b> .....	209,400	90,800	44,400	63,800	10,400
Biochemists/biophysicists .....	41,000	16,300	7,500	16,800	400
Biological scientists .....	66,900	30,800	18,100	17,700	300
Medical scientists, except practitioners .....	71,100	25,500	11,700	24,400	9,400
Other biological/life scientists ....	30,500	18,200	7,100	4,900	300
<b>Forestry/conservation scientists</b> .....	28,200	20,200	6,800	1,100	S
<b>Postsecondary teachers-life/related sciences</b> .....	88,900	17,700	22,100	36,900	12,100
Agriculture teachers .....	11,000	3,000	2,900	5,000	100
Biological science teachers .....	42,400	9,100	12,400	20,700	300
Medical science teachers .....	32,400	5,200	5,700	9,700	11,700
Natural science teachers .....	3,100	400	1,100	1,500	S

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

**Table D-1. U.S. scientists and engineers, by detailed occupation and highest degree attained: 1993**

Occupation	Level of highest degree				
	All degree levels, total	Bachelor's	Master's	Doctorate	Professional
<b>All occupations, total<sup>1</sup> — continued</b>					
<b>Physical/related scientists, total</b>	339,500	163,200	87,400	87,800	1,100
<b>Chemists, except biochemists</b>	142,600	85,000	26,700	30,200	600
<b>Earth scientists/geologists/oceanographers</b> .....	83,300	43,200	28,800	11,400	S
Atmospheric/space scientists ....	11,700	5,500	3,100	3,100	S
Geologists .....	67,800	36,300	24,400	7,100	S
Oceanographers .....	3,700	1,400	1,200	1,100	S
<b>Physicists/astronomers</b> .....	40,900	11,000	13,000	17,000	S
Astronomer .....	2,400	800	300	1,300	S
Physicists .....	38,600	10,200	12,700	15,700	S
<b>Other physical/related scientists</b> .....	20,500	11,200	6,900	2,300	100
<b>Postsecondary teachers-physical/related sci</b> .....	52,200	12,900	12,000	26,900	400
Chemistry teachers .....	20,500	4,700	3,800	11,600	400
Earth/env/marine science teachers .....	13,200	4,000	3,400	5,900	S
Physics teachers .....	18,500	4,200	4,900	9,400	S
<b>Social/related scientists, total</b> .....	356,600	79,300	153,100	115,600	8,600
<b>Economists</b> .....	37,000	13,400	15,900	7,100	600
<b>Political/related scientists</b> .....	10,000	5,900	2,400	1,600	100
<b>Psychologists</b> .....	167,500	30,000	85,600	46,700	5,100
<b>Sociologists/anthropologists</b> ..	19,100	7,600	7,500	3,900	S
Anthropologists .....	7,000	2,200	3,200	1,600	S
Sociologists .....	12,000	5,400	4,300	2,300	S
<b>Other social/related scientists</b>	25,300	9,300	11,700	3,300	1,100
Historians, science/technology	2,100	800	900	400	S
Other social scientists .....	23,200	8,500	10,800	2,900	1,100
<b>Postsecondary teachers-social/related sci</b> .....	97,700	13,100	30,000	52,900	1,700
Economics teachers .....	17,000	1,500	5,500	9,900	100
Political science teachers .....	14,800	1,200	3,900	8,500	1,100
Psychology teachers .....	31,400	5,300	8,700	17,100	300
Sociology teachers .....	12,700	1,400	4,200	7,200	S
Other social science teachers ...	21,700	3,700	7,600	10,200	200

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

**Table D-1. U.S. scientists and engineers, by detailed occupation and highest degree attained: 1993**

Occupation	Level of highest degree				
	All degree levels, total	Bachelor's	Master's	Doctorate	Professional
<b>All occupations, total<sup>1</sup> — continued</b>					
<b>Engineers, total</b> .....	1,645,100	1,170,900	398,000	72,300	3,900
<b>Aerospace/related engineers</b> ...	109,000	73,900	31,100	4,000	100
<b>Chemical engineers</b> .....	96,300	64,300	24,800	7,100	100
<b>Civil/architectural engineers</b> ....	223,500	165,700	53,300	3,600	800
<b>Electrical/related engineers</b> .....	422,600	298,900	110,200	12,900	600
Computer engineers, hardware	50,400	34,000	15,400	1,000	S
Electrical/electronics engineers	372,200	264,900	94,800	11,900	600
<b>Industrial engineers</b> .....	83,700	65,300	17,700	600	100
<b>Mechanical engineers</b> .....	302,900	234,200	60,900	7,100	700
<b>Other engineers</b> .....	368,400	260,700	88,200	18,100	1,400
Agricultural engineers .....	7,600	5,200	1,700	600	S
Bioengineers/biomedical engineers .....	14,000	8,700	3,600	1,700	100
Environmental engineers .....	84,900	56,500	25,100	3,000	400
Marine engineer or naval architect .....	11,100	8,200	2,200	600	100
Materials/metallurgical engineers .....	41,600	24,600	10,800	6,000	100
Mining/geological engineers .....	8,700	6,500	1,700	500	S
Nuclear engineers .....	23,800	15,600	6,600	1,600	S
Petroleum engineers .....	25,700	19,500	4,700	900	600
Sales engineers .....	61,400	50,100	10,900	300	100
Other engineers .....	89,600	65,800	20,800	2,900	100
<b>Engineering teachers</b> .....	38,800	8,000	11,800	18,900	100
<b>Non-S&amp;E occupations, total</b> .....	7,792,100	4,655,200	1,988,800	266,700	881,400
Managers/administrators .....	2,296,500	1,340,300	775,900	128,500	51,800
Health/related .....	857,600	293,800	98,700	25,000	440,000
Teachers, except S&E postsecondary	843,000	392,300	380,800	54,900	15,000
Social service/related .....	453,500	201,300	230,400	11,500	10,300
Technology/technical .....	419,300	338,900	72,400	6,800	1,200
Sales/marketing .....	892,800	717,800	156,600	8,300	10,100
Art, humanities and related .....	149,000	98,500	41,500	5,700	3,300
Other non-S&E occupations .....	1,880,500	1,272,400	232,400	26,000	349,700

<sup>1</sup> Total excludes 37,000 individuals who reported never having worked. For unemployed individuals, occupation is for their previous reported job.

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

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

**SOURCE:** National Science Foundation/Science Resources Studies Division, 1993 SESTAT (Scientists and Engineers Statistical Data System)