

Table D-1. U.S. scientists and engineers, by detailed occupation and highest degree attained: 1997

Occupation	Level of highest degree				
	All degree levels, total	Bachelor's	Master's	Doctorate	Professional
All occupations, total ¹	12,512,000	7,456,800	3,311,300	789,700	954,300
S&E occupations, total	3,899,000	2,252,100	1,100,000	511,900	35,000
Scientists, total	2,261,500	1,135,500	671,100	422,700	32,200
Computer/math sci, total	1,129,700	731,900	328,500	64,800	4,500
Computer/information scientists	1,003,400	698,700	272,500	27,900	4,300
Computer engineers-software ...	319,800	194,700	111,600	12,500	900
Computer scientists, except systems analysts	19,100	8,300	6,500	4,300	S
Computer systems analysts	423,800	324,800	92,000	4,600	2,400
Information systems scientists/analysts	148,700	103,900	40,100	3,900	800
Other computer/information science occupations	91,900	66,900	22,200	2,600	200
Mathematical scientists	42,400	16,400	18,100	7,800	100
Mathematicians	4,200	1,700	1,100	1,400	S
Operations research analysts, modelling	12,900	6,100	5,400	1,400	S
Statisticians	24,100	7,800	11,400	4,700	100
Other mathematical scientists ...	1,200	800	200	200	S
Postsecondary teachers-computer math sci	84,000	16,800	37,800	29,100	100
Computer science teachers	25,200	5,500	11,800	7,900	S
Math science teachers	58,800	11,400	26,000	21,300	100
Life/related scientists, total	387,300	158,100	83,800	128,400	17,000
Agricultural/food scientists	50,500	25,800	12,300	12,200	100
Biological scientists	221,000	94,300	45,400	73,400	7,900
Biochemists/biophysicists	44,400	16,400	7,300	20,200	500
Biological scientists	74,000	35,800	18,900	19,100	200
Medical scientists, except practitioners	84,300	32,100	14,200	30,800	7,200
Other biological/life scientists	18,300	10,100	4,900	3,300	S
Forestry/conservation scientists	23,400	16,900	4,900	1,500	100
Postsecondary teachers-life/related sciences	92,400	21,100	21,200	41,300	8,800
Agriculture teachers	12,000	3,400	3,800	4,800	S
Biological science teachers	48,600	10,600	12,400	25,200	400
Medical science teachers	29,300	5,900	4,400	10,600	8,400
Natural science teachers	2,500	1,200	600	700	S

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

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All occupations, total¹ — continued					
Physical/related scientists, total	343,500	163,300	83,300	96,100	900
Chemists, except biochemists	147,100	88,100	24,600	34,400	S
Earth scientists/geologists/oceanographers	82,100	42,100	28,000	11,900	200
Atmospheric/space scientists	13,200	6,000	3,800	3,300	200
Geologists	65,500	35,400	22,900	7,200	S
Oceanographers	3,400	700	1,300	1,400	S
Physicists/astronomers	38,400	10,200	11,300	16,900	S
Astronomer	3,300	1,100	700	1,500	S
Physicists	35,100	9,100	10,600	15,400	S
Other physical/related scientists	18,700	9,000	7,800	1,700	200
Postsecondary teachers-physical/related sci	57,200	13,900	11,600	31,200	500
Chemistry teachers	27,900	8,100	5,100	14,200	500
Earth/env/marine science teachers	12,800	3,300	2,900	6,600	S
Physics teachers	16,600	2,500	3,500	10,500	100
Social/related scientists, total	401,000	82,200	175,600	133,300	9,800
Economists	50,800	18,500	23,200	8,700	400
Political/related scientists	11,000	6,100	3,700	1,200	S
Psychologists	205,800	32,500	108,600	58,000	6,700
Sociologists/anthropologists ..	19,500	9,600	5,600	4,300	S
Anthropologists	9,700	4,200	3,400	2,000	S
Sociologists	9,800	5,300	2,200	2,300	S
Other social/related scientists	13,500	5,500	4,100	3,000	900
Historians, science/technology	600	100	200	300	S
Other social scientists	12,900	5,400	3,800	2,700	900
Postsecondary teachers-social/related sci	100,300	10,100	30,400	58,100	1,700
Economics teachers	17,600	1,600	5,000	11,100	S
Political science teachers	16,600	1,000	5,000	9,800	800
Psychology teachers	33,700	5,100	9,600	18,700	300
Sociology teachers	15,000	900	4,800	9,200	100
Other social science teachers ...	17,400	1,500	6,100	9,400	400

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

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Occupation	Level of highest degree				
	All degree levels, total	Bachelor's	Master's	Doctorate	Professional
All occupations, total¹ — continued					
Engineers, total	1,637,500	1,116,600	428,900	89,200	2,800
Aerospace/related engineers ...	99,400	61,200	32,900	5,100	200
Chemical engineers	93,900	61,000	24,600	8,300	S
Civil/architectural engineers	245,600	181,400	59,100	4,500	600
Electrical/related engineers	430,500	290,500	120,200	18,800	1,000
Computer engineers, hardware	51,800	33,600	16,200	2,100	S
Electrical/electronics engineers	378,700	257,000	104,000	16,700	1,000
Industrial engineers	93,800	70,100	21,800	1,400	400
Mechanical engineers	319,500	238,500	70,800	9,900	300
Other engineers	313,600	206,300	87,100	19,900	200
Agricultural engineers	5,500	3,800	1,000	700	S
Bioengineers/biomedical engineers	13,000	7,000	3,700	2,300	S
Environmental engineers	83,500	50,000	29,700	3,600	200
Marine engineer or naval architect	10,100	7,000	2,900	300	S
Materials/metallurgical engineers	44,700	23,700	13,400	7,500	S
Mining/geological engineers	7,300	5,800	1,200	300	S
Nuclear engineers	21,100	12,900	6,400	1,800	S
Petroleum engineers	20,800	17,500	2,200	1,100	S
Sales engineers	60,700	47,500	13,000	200	S
Other engineers	46,800	31,200	13,500	2,100	S
Engineering teachers	41,300	7,400	12,400	21,300	100
Non-S&E occupations, total	8,613,100	5,204,700	2,211,300	277,800	919,300
Managers/administrators	2,321,300	1,319,600	826,600	115,300	59,800
Health/related	920,300	350,900	109,900	26,400	433,100
Teachers, except S&E postsecondary	985,500	482,800	412,700	68,100	21,900
Social service/related	529,000	251,900	252,000	14,800	10,300
Technology/technical	418,200	341,600	68,100	7,500	900
Sales/marketing	1,085,700	848,600	215,700	9,600	11,800
Art, humanities and related	198,300	132,100	56,600	6,100	3,500
Other non-S&E occupations	2,154,900	1,477,200	269,600	30,100	378,000

¹ Total excludes 18,700 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 were employed in a S&E occupation during either the 1993, 1995 or 1997 SESTAT surveys. Figures are rounded to nearest hundred. Details may not add to total because of rounding.

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

SOURCE: National Science Foundation/Science Resources Studies Division, 1997 SESTAT (Scientists and Engineers Statistical Data System)