

Table D-2. U.S. scientists and engineers, by highest degree attained, occupation, and employment status: 1993

Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
All degree levels¹								
All occupations, total²	11,578,200	9,793,500	8,793,000	1,000,500	318,200	1,466,500	825,200	641,400
S&E occupations, total	3,786,100	3,303,400	3,019,400	284,000	87,900	394,800	266,400	128,400
Scientists, total	2,140,900	1,912,300	1,691,400	220,900	38,600	190,000	93,800	96,200
Computer/math sci, total	1,065,900	991,500	917,500	74,000	19,400	55,000	20,500	34,500
Computer/information scientists	926,000	870,000	825,600	44,400	16,900	39,200	12,700	26,500
Mathematical scientists	55,200	46,800	41,600	5,200	1,500	6,800	3,800	3,000
Postsecondary teachers- computer math sci	84,700	74,700	50,300	24,400	1,000	9,000	4,000	5,000
Life/related scientists, total	379,000	322,300	286,600	35,700	5,700	51,000	23,100	27,900
Agricultural/food scientists	52,500	44,600	40,500	4,100	800	7,100	4,400	2,700
Biological scientists	209,400	175,900	161,400	14,500	3,300	30,200	10,900	19,300
Environmental life scientists	28,200	24,800	22,500	2,300	300	3,000	2,000	1,100
Postsecondary teachers- life/related sciences	88,900	77,000	62,100	14,900	1,300	10,600	5,800	4,800
Physical/related scientists, total ...	339,500	280,900	247,900	33,100	8,200	50,400	33,400	16,900
Chemistry, except biochemistry	142,600	114,200	107,300	6,900	3,400	25,000	16,400	8,600
Earth scientists/ geologists/oceanographers	83,300	68,700	61,700	7,100	2,500	12,100	8,100	4,000
Physicists/astronomers	40,900	34,900	30,000	4,900	1,000	5,100	3,600	1,500
Other physical/related scientists	20,500	17,700	16,600	1,100	600	2,200	1,700	500
Postsecondary teachers- physical/related sci	52,200	45,500	32,300	13,200	700	6,000	3,700	2,300
Social/related scientists, total	356,600	317,600	239,500	78,100	5,300	33,700	16,900	16,900
Economists	37,000	31,100	27,100	4,000	900	5,100	2,900	2,200
Political/related scientists	10,000	8,600	7,000	1,600	400	1,000	500	400
Psychologists	167,500	150,800	112,400	38,300	1,600	15,100	6,400	8,700
Sociologists/anthropologists	19,100	15,100	11,700	3,400	900	3,100	700	2,400
Other social/related scientists	25,300	24,000	18,400	5,500	300	1,000	500	600
Postsecondary teachers- social/related sci	97,700	88,100	62,800	25,300	1,100	8,400	5,900	2,600
Engineers, total	1,645,100	1,391,100	1,328,000	63,100	49,300	204,800	172,600	32,200
Aerospace/related engineers	109,000	84,100	81,100	2,900	4,300	20,700	19,100	1,600
Chemical engineers	96,300	77,700	74,300	3,500	2,100	16,400	13,200	3,200
Civil/architectural engineers	223,500	191,500	180,500	11,000	5,400	26,500	22,500	4,100
Electrical/related engineers	422,600	362,500	350,300	12,200	12,900	47,200	39,900	7,300
Industrial engineers	83,700	70,200	67,700	2,500	2,400	11,000	9,100	1,900
Mechanical engineers	302,900	253,300	244,500	8,800	10,200	39,400	35,400	4,000
Other engineers	368,400	318,600	303,000	15,600	11,200	38,600	29,800	8,800
Postsecondary teachers-engineers ..	38,800	33,100	26,500	6,600	800	4,900	3,600	1,300
Non-S&E occupations, total	7,792,100	6,490,100	5,773,600	716,600	230,300	1,071,700	558,800	512,900
Managers/administrators	2,296,500	1,994,400	1,908,900	85,500	47,100	255,000	183,300	71,700
Health/related	857,600	758,000	660,300	97,600	11,100	88,500	38,100	50,300
Teachers, except S&E postsecondary	843,000	659,500	546,700	112,800	15,900	167,500	102,000	65,500
Sales/marketing	892,800	748,300	663,600	84,700	34,200	110,300	55,100	55,200
Other non-S&E occupations	2,902,300	2,330,000	1,994,100	335,800	121,900	450,500	180,200	270,200

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

Table D-2. U.S. scientists and engineers, by highest degree attained, occupation, and employment status: 1993

Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Bachelor's								
All occupations, total ²	6,948,800	5,727,200	5,110,700	616,500	222,900	998,700	522,600	476,100
S&E occupations, total	2,293,600	1,980,300	1,837,600	142,700	56,100	257,200	177,500	79,700
Scientists, total	1,122,700	1,007,000	904,700	102,300	18,400	97,300	41,400	55,900
Computer/math sci, total	720,300	676,200	630,900	45,300	10,300	33,800	10,400	23,400
Computer/information scientists	674,300	637,300	605,100	32,200	9,900	27,100	7,800	19,300
Mathematical scientists	24,900	21,200	18,800	2,400	S	3,700	1,900	1,800
Postsecondary teachers- computer math sci	21,200	17,800	7,000	10,800	400	3,000	600	2,300
Life/related scientists, total	159,900	131,600	113,800	17,800	2,600	25,700	8,700	17,000
Agricultural/food scientists	31,200	27,000	24,700	2,300	400	3,700	2,100	1,600
Biological scientists	90,800	72,300	65,800	6,500	1,500	17,000	4,200	12,800
Environmental life scientists	20,200	18,000	16,500	1,500	200	2,000	1,400	600
Postsecondary teachers- life/related sciences	17,700	14,400	6,800	7,500	400	2,900	1,000	2,000
Physical/related scientists, total ...	163,200	130,700	114,200	16,400	3,300	29,200	20,000	9,300
Chemistry, except biochemistry	85,000	66,500	63,100	3,400	1,700	16,700	10,800	5,900
Earth scientists/ geologists/oceanographers	43,200	35,100	31,700	3,400	800	7,300	5,700	1,600
Physicists/astronomers	11,000	8,900	7,400	1,500	200	1,800	1,400	500
Other physical/related scientists	11,200	9,200	8,900	300	400	1,600	1,400	200
Postsecondary teachers- physical/related sci	12,900	11,000	3,100	7,800	200	1,700	600	1,100
Social/related scientists, total	79,300	68,500	45,800	22,700	2,200	8,600	2,400	6,200
Economists	13,400	10,800	9,100	1,700	400	2,200	1,500	700
Political/related scientists	5,900	5,400	4,100	1,400	300	200	S	200
Psychologists	30,000	25,800	18,000	7,900	600	3,600	400	3,200
Sociologists/anthropologists	7,600	5,700	4,400	1,300	600	1,300	S	1,300
Other social/related scientists	9,300	8,700	7,200	1,500	200	400	100	300
Postsecondary teachers- social/related sci	13,100	12,100	3,100	9,000	100	900	400	500
Engineers, total	1,170,900	973,300	932,900	40,400	37,700	159,900	136,100	23,800
Aerospace/related engineers	73,900	54,200	52,500	1,700	3,200	16,400	15,200	1,200
Chemical engineers	64,300	49,900	48,500	1,500	1,700	12,600	9,900	2,700
Civil/architectural engineers	165,700	139,700	131,700	8,000	4,300	21,700	18,400	3,300
Electrical/related engineers	298,900	251,800	243,800	8,000	9,900	37,100	32,100	5,100
Industrial engineers	65,300	54,700	52,700	2,000	1,600	9,000	7,400	1,600
Mechanical engineers	234,200	194,400	188,200	6,100	7,500	32,300	29,200	3,100
Other engineers	260,700	222,300	212,000	10,300	9,100	29,300	23,300	6,000
Postsecondary teachers-engineers ..	8,000	6,200	3,500	2,800	400	1,400	600	800
Non-S&E occupations, total	4,655,200	3,746,900	3,273,100	473,800	166,800	741,500	345,100	396,400
Managers/administrators	1,340,300	1,134,700	1,085,300	49,500	30,200	175,400	125,000	50,400
Health/related	293,800	235,700	183,600	52,100	6,900	51,200	13,800	37,300
Teachers, except S&E postsecondary	392,300	299,700	231,800	67,900	10,900	81,700	37,900	43,800
Sales/marketing	717,800	600,000	534,600	65,500	25,700	92,100	45,400	46,600
Other non-S&E occupations	1,911,000	1,476,800	1,237,900	238,800	93,100	341,200	122,900	218,200

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

Table D-2. U.S. scientists and engineers, by highest degree attained, occupation, and employment status: 1993

Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Master's								
All occupations, total²	3,002,400	2,575,600	2,288,400	287,200	73,800	353,100	221,500	131,600
S&E occupations, total	1,013,600	891,300	781,100	110,200	25,200	97,200	57,200	40,000
Scientists, total	615,600	541,400	450,500	90,900	15,000	59,200	26,500	32,700
Computer/math sci, total	290,100	263,600	237,900	25,700	8,300	18,200	7,700	10,500
Computer/information scientists	230,300	212,400	201,200	11,200	6,400	11,500	4,400	7,100
Mathematical scientists	22,000	18,200	15,900	2,300	1,400	2,500	1,300	1,100
Postsecondary teachers- computer math sci	37,700	33,000	20,800	12,200	500	4,200	2,000	2,300
Life/related scientists, total	85,100	70,400	59,200	11,200	1,800	12,900	5,300	7,600
Agricultural/food scientists	11,700	9,700	8,500	1,200	200	1,800	1,000	800
Biological scientists	44,400	37,100	33,000	4,100	900	6,500	2,300	4,100
Environmental life scientists	6,800	6,000	5,300	700	100	800	300	400
Postsecondary teachers- life/related sciences	22,100	17,700	12,400	5,200	600	3,900	1,600	2,200
Physical/related scientists, total ...	87,400	72,600	60,100	12,400	2,900	11,900	6,000	6,000
Chemistry, except biochemistry	26,700	21,100	18,900	2,300	800	4,800	2,700	2,100
Earth scientists/ geologists/oceanographers	28,800	23,900	20,700	3,100	1,400	3,500	1,500	2,000
Physicists/astronomers	13,000	11,000	8,400	2,600	200	1,800	1,100	800
Other physical/related scientists	6,900	6,400	5,800	600	200	300	100	200
Postsecondary teachers- physical/related sci	12,000	10,200	6,400	3,800	400	1,500	600	900
Social/related scientists, total	153,100	134,900	93,300	41,600	2,000	16,200	7,600	8,600
Economists	15,900	13,500	11,600	1,800	300	2,100	700	1,400
Political/related scientists	2,400	1,900	1,800	100	100	400	100	300
Psychologists	85,600	76,400	54,900	21,500	700	8,600	4,100	4,400
Sociologists/anthropologists	7,500	6,300	4,600	1,700	200	1,000	100	800
Other social/related scientists	11,700	11,200	8,000	3,300	100	400	200	200
Postsecondary teachers- social/related sci	30,000	25,600	12,300	13,300	600	3,800	2,300	1,500
Engineers, total	398,000	349,900	330,600	19,200	10,200	38,000	30,700	7,300
Aerospace/related engineers	31,100	26,200	25,200	1,000	900	4,000	3,700	400
Chemical engineers	24,800	21,800	20,100	1,700	300	2,800	2,400	400
Civil/architectural engineers	53,300	47,800	45,000	2,800	1,100	4,400	3,700	700
Electrical/related engineers	110,200	98,500	94,800	3,700	2,700	9,000	6,900	2,100
Industrial engineers	17,700	15,100	14,500	600	700	2,000	1,700	300
Mechanical engineers	60,900	51,800	49,600	2,200	2,600	6,500	5,600	900
Other engineers	88,200	79,600	75,400	4,200	1,700	6,900	4,700	2,200
Postsecondary teachers-engineers ..	11,800	9,100	6,000	3,100	300	2,300	1,900	400
Non-S&E occupations, total	1,988,800	1,684,300	1,507,200	177,000	48,600	255,900	164,300	91,600
Managers/administrators	775,900	693,200	663,400	29,800	13,800	68,800	49,200	19,600
Health/related	98,700	83,600	64,500	19,100	1,700	13,400	7,500	5,900
Teachers, except S&E postsecondary	380,800	301,900	262,100	39,800	4,100	74,800	55,800	19,000
Sales/marketing	156,600	132,400	116,200	16,200	7,600	16,600	8,700	7,900
Other non-S&E occupations	576,700	473,200	401,000	72,200	21,300	82,200	43,000	39,200

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

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Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Doctorate								
All occupations, total²	706,100	634,800	590,400	44,300	11,200	60,100	47,200	13,000
S&E occupations, total	439,400	395,600	368,500	27,100	6,500	37,300	29,700	7,700
Scientists, total	367,100	330,500	306,700	23,800	5,200	31,400	24,400	6,900
Computer/math sci, total	52,400	48,700	45,800	2,900	700	2,900	2,300	700
Computer/information scientists	18,500	17,500	16,600	900	500	500	400	100
Mathematical scientists	8,200	7,400	6,900	500	200	700	500	200
Postsecondary teachers- computer math sci	25,600	23,800	22,300	1,500	100	1,700	1,300	400
Life/related scientists, total	111,400	98,100	93,600	4,500	1,400	11,900	9,000	2,900
Agricultural/food scientists	9,500	7,800	7,300	500	200	1,500	1,400	100
Biological scientists	63,800	56,400	53,800	2,600	1,000	6,500	4,300	2,100
Environmental life scientists	1,100	900	800	100	S	300	200	S
Postsecondary teachers- life/related sciences	36,900	33,000	31,700	1,300	300	3,700	3,100	600
Physical/related scientists, total ...	87,800	77,000	72,900	4,100	2,000	8,800	7,100	1,700
Chemistry, except biochemistry	30,200	25,800	24,700	1,100	900	3,500	2,900	600
Earth scientists/ geologists/oceanographers	11,400	9,800	9,300	500	300	1,200	900	400
Physicists/astronomers	17,000	15,000	14,200	800	600	1,400	1,100	300
Other physical/related scientists	2,300	2,000	1,900	100	S	300	200	100
Postsecondary teachers- physical/related sci	26,900	24,300	22,800	1,500	200	2,400	2,000	300
Social/related scientists, total	115,600	106,700	94,400	12,400	1,100	7,800	6,000	1,800
Economists	7,100	6,300	5,800	500	200	700	700	S
Political/related scientists	1,600	1,200	1,100	100	100	400	400	S
Psychologists	46,700	44,300	36,300	8,100	300	2,100	1,300	800
Sociologists/anthropologists	3,900	3,100	2,700	400	100	800	600	200
Other social/related scientists	3,300	3,000	2,600	300	S	300	200	100
Postsecondary teachers- social/related sci	52,900	48,900	45,900	3,000	400	3,600	2,900	600
Engineers, total	72,300	65,000	61,800	3,200	1,300	6,000	5,200	700
Aerospace/related engineers	4,000	3,600	3,400	100	200	200	200	100
Chemical engineers	7,100	6,000	5,700	300	100	900	800	100
Civil/architectural engineers	3,600	3,200	3,000	200	S	400	300	100
Electrical/related engineers	12,900	11,600	11,100	500	300	1,000	900	200
Industrial engineers	600	400	400	S	100	100	100	S
Mechanical engineers	7,100	6,500	6,200	200	100	600	500	S
Other engineers	18,100	16,000	14,900	1,200	400	1,700	1,500	200
Postsecondary teachers-engineers ..	18,900	17,700	17,100	700	100	1,000	1,000	100

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Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Doctorate — continued								
Non-S&E occupations, total	266,700	239,200	222,000	17,300	4,700	22,800	17,500	5,300
Managers/administrators	128,500	119,000	115,000	4,000	1,700	7,800	6,700	1,100
Health/related	25,000	21,100	19,200	1,900	1,000	3,000	2,200	800
Teachers, except S&E postsecondary	54,900	46,900	43,500	3,400	800	7,200	5,700	1,400
Sales/marketing	8,300	7,400	6,000	1,300	100	800	400	300
Other non-S&E occupations	50,000	44,800	38,200	6,600	1,100	4,200	2,500	1,700

¹ Includes professional degrees

² 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)