

Table C-9. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 1993

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian	Other
All degree levels¹								
All degree fields, total	9,793,500	6,729,500	3,064,100	8,303,300	503,100	306,800	650,800	29,600
S&E degree fields, total	7,035,800	4,831,100	2,204,700	5,905,800	357,200	228,400	523,400	21,000
Sciences, total	5,202,100	3,141,300	2,060,700	4,385,200	314,800	165,600	319,500	17,000
Computer/math sciences, total	918,000	616,200	301,800	744,600	54,200	24,900	91,600	2,800
Computer/information sciences	477,400	329,300	148,000	367,500	30,200	15,700	62,500	1,500
Mathematical sciences	440,600	286,800	153,800	377,200	24,000	9,100	29,100	1,300
Life/related sciences, total	1,073,100	658,900	414,300	914,100	48,500	35,100	71,900	3,600
Agricultural/food sciences	204,300	155,400	48,900	182,700	5,300	5,300	10,400	600
Biological sciences	785,100	440,300	344,800	652,500	42,500	28,200	59,100	2,700
Environmental life sciences	83,700	63,200	20,500	78,900	600	1,600	2,300	300
Physical/related sciences, total	599,800	481,600	118,100	506,300	20,700	15,200	55,300	2,200
Chemistry, except biochemistry	262,800	193,600	69,200	208,000	13,500	7,600	32,500	1,100
Earth science, geology and oceanography	144,100	121,600	22,500	133,200	1,400	3,500	5,500	500
Physics/astronomy	142,100	128,100	14,000	119,900	3,900	2,600	15,200	500
Other physical sciences	26,700	19,500	7,200	23,500	600	1,000	1,500	100
Social/related sciences, total	2,611,200	1,384,700	1,226,500	2,220,200	191,500	90,400	100,700	8,400
Economics	395,000	307,700	87,300	339,200	15,400	10,900	28,900	500
Political/related sciences	481,400	318,300	163,100	411,200	31,300	17,500	19,900	1,500
Psychology	960,700	394,800	565,900	830,900	69,300	32,800	24,100	3,700
Sociology/anthropology	485,900	204,600	281,300	396,300	55,300	17,600	14,700	2,000
Other social sciences	288,200	159,400	128,900	242,500	20,200	11,700	13,100	700
Engineering, total	1,833,700	1,689,700	144,000	1,520,600	42,400	62,800	203,900	4,000
Aerospace/related engineering	78,900	75,200	3,700	70,900	1,100	2,600	4,300	100
Chemical engineering	135,000	113,300	21,700	107,700	2,500	4,900	19,700	100
Civil/architectural engineering	310,300	285,000	25,300	255,000	5,600	13,800	35,400	600
Electrical/related engineering	544,300	510,600	33,800	437,100	16,000	18,400	72,000	1,000
Industrial engineering	103,300	87,800	15,600	85,800	3,800	4,300	9,100	400
Mechanical engineering	371,500	353,100	18,400	316,800	7,300	10,900	35,300	1,100
Other engineering	289,900	264,700	25,100	246,800	6,000	8,100	28,200	900
Non-S&E degrees, total	2,757,700	1,898,400	859,300	2,397,500	145,900	78,300	127,400	8,600
Bachelor's								
All degree fields, total	5,727,200	3,876,700	1,850,500	4,866,300	320,100	191,500	330,900	18,400
S&E degree fields, total	5,172,600	3,500,000	1,672,600	4,388,400	290,700	177,300	300,800	15,600
Sciences, total	3,814,400	2,249,900	1,564,500	3,228,300	255,200	128,400	189,700	12,700
Computer/math sciences, total	663,800	431,000	232,800	546,100	45,500	20,600	49,600	2,100
Computer/information sciences	346,200	232,500	113,600	272,500	26,700	13,600	32,200	1,200
Mathematical sciences	317,700	198,500	119,200	273,600	18,800	6,900	17,400	900

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

Table C-9. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 1993

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian	Other
Bachelor's — continued								
Life/related sciences, total	773,600	462,400	311,200	667,400	38,500	26,000	39,100	2,600
Agricultural/food sciences	162,200	123,300	38,800	147,300	4,500	4,300	5,700	400
Biological sciences	546,400	288,800	257,600	457,800	33,900	20,500	32,200	2,000
Environmental life sciences	65,000	50,300	14,700	62,300	100	1,200	1,200	200
Physical/related sciences, total	372,500	290,500	82,100	318,700	16,000	10,200	26,100	1,600
Chemistry, except biochemistry	168,800	118,100	50,700	133,900	11,200	5,600	17,300	900
Earth science, geology and oceanography	94,700	80,300	14,300	89,300	800	2,200	2,100	400
Physics/astronomy	70,700	63,400	7,400	60,900	2,700	1,300	5,600	300
Other physical sciences	18,800	13,400	5,500	17,000	400	700	700	S
Social/related sciences, total	2,004,400	1,065,900	938,500	1,696,100	155,300	71,700	75,000	6,300
Economics	332,800	257,900	74,900	290,400	12,500	8,600	20,900	400
Political/related sciences	407,400	266,900	140,500	347,600	27,700	15,100	15,600	1,300
Psychology	619,600	249,700	369,900	527,400	48,600	23,400	18,000	2,200
Sociology/anthropology	424,400	170,800	253,500	344,000	51,600	15,400	11,600	1,800
Other social sciences	220,300	120,600	99,700	186,800	14,700	9,200	8,900	600
Engineering, total	1,358,300	1,250,200	108,100	1,160,100	35,500	48,800	111,100	2,900
Aerospace/related engineering	57,600	54,300	3,300	52,300	900	2,000	2,300	100
Chemical engineering	97,700	79,500	18,200	79,600	2,100	3,600	12,200	100
Civil/architectural engineering	236,700	216,900	19,800	200,000	4,600	11,000	20,700	400
Electrical/related engineering	395,600	370,200	25,300	327,300	13,600	14,200	40,000	600
Industrial engineering	82,300	70,200	12,100	71,300	3,400	3,300	4,100	100
Mechanical engineering	301,000	285,600	15,400	263,400	6,300	9,200	21,100	1,000
Other engineering	187,000	173,400	13,600	165,600	4,600	5,500	10,600	700
Non-S&E degrees, total	554,500	376,700	177,900	477,900	29,400	14,300	30,100	2,800
Master's								
All degree fields, total	2,575,600	1,688,100	887,500	2,155,400	129,400	73,100	210,700	7,000
S&E degree fields, total	1,328,400	907,400	421,100	1,078,900	54,900	37,000	154,000	3,600
Sciences, total	937,700	548,500	389,200	778,600	49,000	24,900	82,500	2,700
Computer/math sciences, total	221,400	156,300	65,000	172,600	8,300	3,500	36,400	600
Computer/information sciences	124,400	91,000	33,400	90,300	3,400	1,900	28,500	300
Mathematical sciences	97,000	65,300	31,600	82,200	4,900	1,600	7,900	300
Life/related sciences, total	151,000	86,900	64,100	125,600	6,800	3,700	14,400	600
Agricultural/food sciences	26,100	18,300	7,700	21,900	600	600	2,900	100
Biological sciences	110,200	59,300	50,900	90,700	5,800	2,800	10,500	400
Environmental life sciences	14,800	9,300	5,500	12,900	500	400	1,000	100
Physical/related sciences, total	111,300	87,200	24,200	92,800	3,200	2,900	12,200	300
Chemistry, except biochemistry	34,000	23,300	10,700	26,500	1,500	800	5,200	100
Earth science, geology and oceanography	34,000	27,300	6,700	29,900	600	1,100	2,300	100
Physics/astronomy	32,400	28,100	4,300	26,900	700	800	3,900	100
Other physical sciences	6,500	5,000	1,500	5,300	200	300	700	100

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

Table C-9. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 1993

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian	Other
Master's — continued								
Social/related sciences, total	453,900	218,100	235,800	387,700	30,700	14,800	19,500	1,300
Economics	41,800	32,100	9,700	31,500	2,200	1,800	6,100	S
Political/related sciences	58,300	38,800	19,500	49,900	2,800	2,100	3,400	100
Psychology	259,700	98,000	161,800	229,000	17,800	7,300	4,500	1,100
Sociology/anthropology	39,900	20,000	19,900	33,300	2,800	1,500	2,300	100
Other social sciences	54,200	29,300	24,900	44,000	5,000	2,000	3,100	S
Engineering, total	390,700	358,900	31,900	300,300	5,900	12,100	71,600	900
Aerospace/related engineering	17,900	17,600	400	15,900	200	500	1,300	S
Chemical engineering	24,800	21,900	2,900	19,200	300	1,000	4,200	S
Civil/architectural engineering	65,100	59,900	5,200	48,800	900	2,600	12,600	100
Electrical/related engineering	127,300	119,600	7,700	94,900	2,100	3,700	26,300	300
Industrial engineering	18,700	15,700	3,000	13,000	400	500	4,500	200
Mechanical engineering	59,900	57,100	2,800	46,100	900	1,600	11,200	100
Other engineering	76,900	67,000	9,900	62,400	1,100	2,100	11,300	S
Non-S&E degrees, total	1,247,100	780,700	466,400	1,076,600	74,500	36,000	56,700	3,400
Doctorate								
All degree fields, total	634,800	499,400	135,400	520,800	20,500	16,800	74,300	2,400
S&E degree fields, total	529,200	421,000	108,200	433,700	11,300	13,900	68,500	1,800
Sciences, total	444,500	340,300	104,200	373,600	10,200	12,000	47,200	1,600
Computer/math sciences, total	32,800	28,800	4,000	26,000	400	800	5,600	100
Computer/information sciences	6,800	5,800	1,000	4,600	100	200	1,900	S
Mathematical sciences	26,000	23,000	3,000	21,300	300	600	3,700	100
Life/related sciences, total	148,500	109,600	38,900	121,100	3,100	5,400	18,400	400
Agricultural/food sciences	16,100	13,700	2,300	13,400	200	500	1,900	S
Biological sciences	128,500	92,200	36,300	104,000	2,900	4,900	16,400	300
Environmental life sciences	3,900	3,600	300	3,700	S	S	100	S
Physical/related sciences, total	115,900	104,000	11,900	94,900	1,500	2,100	17,100	300
Chemistry, except biochemistry	60,000	52,200	7,800	47,600	900	1,300	10,000	200
Earth science, geology and oceanography	15,400	14,000	1,400	14,000	S	200	1,200	S
Physics/astronomy	39,000	36,600	2,400	32,100	500	600	5,700	100
Other physical sciences	1,400	1,200	200	1,200	S	100	100	S
Social/related sciences, total	147,300	98,000	49,300	131,600	5,200	3,700	6,100	800
Economics	20,400	17,700	2,700	17,300	600	500	1,900	100
Political/related sciences	15,600	12,600	3,100	13,800	700	300	800	100
Psychology	75,900	44,500	31,400	69,800	2,500	1,800	1,500	400
Sociology/anthropology	21,700	13,800	7,900	19,100	900	700	800	200
Other social sciences	13,700	9,500	4,200	11,600	500	500	1,100	100

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

Table C-9. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 1993

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian	Other
Doctorate — continued								
Engineering, total	84,700	80,700	4,000	60,200	1,100	1,900	21,300	200
Aerospace/related engineering	3,400	3,400	S	2,700	100	100	600	S
Chemical engineering	12,500	11,800	600	8,900	100	200	3,300	S
Civil/architectural engineering	8,500	8,100	300	6,100	100	200	2,000	S
Electrical/related engineering	21,400	20,700	700	14,900	300	500	5,700	100
Industrial engineering	2,300	1,900	400	1,500	S	400	400	S
Mechanical engineering	10,700	10,400	300	7,300	100	100	3,000	S
Other engineering	26,000	24,400	1,600	18,800	400	400	6,200	100
Non-S&E degrees, total	105,600	78,400	27,100	87,000	9,200	3,000	5,800	600

1 Includes professional degrees

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)