

Table C-9. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian/Pacific Islander	Other
All degree levels¹								
All degree fields, total	10,981,600	7,171,500	3,810,200	9,124,600	597,100	417,200	805,900	36,800
S&E degree fields, total	7,980,100	5,216,100	2,764,000	6,550,400	418,600	320,800	660,900	29,400
Sciences, total	6,043,700	3,463,400	2,580,300	5,003,200	365,300	244,600	406,000	24,600
Computer/math sciences, total	1,045,800	707,200	338,600	825,100	60,000	34,500	121,900	4,300
Computer/information sciences	586,500	424,400	162,100	435,200	36,800	24,200	88,400	2,000
Mathematical sciences	459,300	282,800	176,500	389,900	23,200	10,300	33,600	2,300
Life/related sciences, total	1,287,700	753,100	534,600	1,076,100	61,000	49,400	96,100	5,200
Agricultural/food sciences	230,400	170,000	60,300	204,500	7,900	6,600	10,200	1,100
Biological sciences	955,300	511,000	444,300	776,700	51,800	39,900	83,300	3,600
Environmental life sciences	102,100	72,100	30,000	94,800	1,200	3,000	2,600	400
Physical/related sciences, total	621,700	483,400	138,300	521,800	21,500	18,400	57,400	2,600
Chemistry, except biochemistry	276,200	196,000	80,200	216,300	13,900	9,900	35,200	800
Earth science, geology and oceanography	152,800	124,600	28,200	140,500	1,500	3,900	6,000	900
Physics/astronomy	144,000	128,800	15,200	121,800	3,900	3,100	14,500	700
Other physical sciences	48,800	34,000	14,700	43,200	2,100	1,500	1,700	200
Social/related sciences, total	3,088,400	1,519,600	1,568,800	2,580,300	222,900	142,200	130,600	12,400
Economics	406,500	307,100	99,500	342,700	16,100	12,300	34,900	500
Political/related sciences	567,000	356,700	210,300	473,700	39,300	28,000	22,800	3,100
Psychology	1,166,100	434,600	731,500	989,000	80,600	56,600	34,800	5,100
Sociology/anthropology	592,700	244,300	348,400	481,800	59,900	27,800	20,800	2,400
Other social sciences	356,100	177,000	179,100	293,100	27,100	17,500	17,200	1,200
Engineering, total	1,936,400	1,752,700	183,700	1,547,200	53,200	76,200	254,900	4,900
Aerospace/related engineering	76,300	71,600	4,800	68,400	600	2,300	5,000	S
Chemical engineering	147,700	119,800	27,800	114,500	4,600	5,300	22,800	400
Civil/architectural engineering	330,200	296,900	33,300	265,600	7,500	16,400	39,300	1,400
Electrical/related engineering	587,000	547,200	39,800	444,500	20,500	23,100	98,300	600
Industrial engineering	106,200	85,500	20,700	83,600	4,900	5,700	11,700	300
Mechanical engineering	386,000	363,400	22,600	320,200	7,700	13,700	43,000	1,400
Other engineering	303,000	268,300	34,700	250,400	7,300	9,700	34,800	700
Non-S&E degrees, total	3,001,500	1,955,400	1,046,100	2,574,200	178,600	96,400	145,000	7,400
Bachelor's								
All degree fields, total	6,350,100	4,084,400	2,265,700	5,300,500	362,000	268,800	394,800	23,900
S&E degree fields, total	5,866,100	3,758,600	2,107,500	4,880,800	336,400	255,600	371,100	22,200
Sciences, total	4,486,100	2,509,900	1,976,300	3,734,200	293,700	198,100	241,700	18,400
Computer/math sciences, total	742,700	491,000	251,700	602,500	48,700	28,600	59,900	3,100
Computer/information sciences	413,500	295,800	117,700	319,800	30,900	20,900	40,600	1,300
Mathematical sciences	329,200	195,200	134,000	282,700	17,800	7,700	19,300	1,700

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: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian/Pacific Islander	Other
Bachelor's — continued								
Life/related sciences, total	947,000	538,000	409,000	799,900	48,800	39,400	55,000	3,800
Agricultural/food sciences	182,300	133,900	48,400	164,200	6,700	5,000	5,400	1,000
Biological sciences	686,000	347,900	338,100	561,100	41,800	32,100	48,600	2,500
Environmental life sciences	78,700	56,100	22,600	74,600	300	2,400	1,100	400
Physical/related sciences, total	380,900	287,500	93,300	325,800	16,900	12,700	23,700	1,800
Chemistry, except biochemistry	175,100	117,900	57,200	138,600	11,300	7,700	16,900	700
Earth science, geology and oceanography	101,800	84,000	17,900	95,600	1,000	2,300	2,300	600
Physics/astronomy	66,900	59,600	7,300	58,200	2,900	1,600	3,800	500
Other physical sciences	37,000	26,100	11,000	33,400	1,700	1,200	700	S
Social/related sciences, total	2,415,500	1,193,300	1,222,200	2,006,000	179,400	117,400	103,100	9,700
Economics	340,300	257,100	83,200	290,700	12,700	9,300	27,200	400
Political/related sciences	482,900	303,000	179,800	402,500	35,000	23,700	18,800	2,800
Psychology	794,500	286,900	507,700	662,500	57,100	44,200	27,300	3,400
Sociology/anthropology	525,200	210,800	314,400	425,700	55,600	25,300	16,500	2,200
Other social sciences	272,600	135,500	137,200	224,700	19,000	14,900	13,200	900
Engineering, total	1,380,000	1,248,700	131,300	1,146,600	42,700	57,500	129,400	3,800
Aerospace/related engineering	53,600	49,800	3,800	48,400	400	1,800	3,000	S
Chemical engineering	112,000	88,100	23,900	90,000	4,000	4,300	13,500	400
Civil/architectural engineering	247,000	222,800	24,100	206,200	6,100	12,100	21,300	1,300
Electrical/related engineering	407,400	380,700	26,700	319,500	17,000	17,100	53,400	400
Industrial engineering	79,500	63,600	15,900	65,800	3,800	4,300	5,400	300
Mechanical engineering	304,200	286,100	18,000	262,000	6,600	12,000	22,600	1,000
Other engineering	176,300	157,500	18,900	154,700	4,900	5,900	10,300	600
Non-S&E degrees, total	484,000	325,900	158,100	419,700	25,600	13,200	23,800	1,700
Master's								
All degree fields, total	2,982,000	1,871,200	1,110,800	2,440,500	168,600	98,000	266,600	8,200
S&E degree fields, total	1,491,200	987,800	503,400	1,176,200	67,700	47,900	194,500	4,900
Sciences, total	1,040,400	582,000	458,400	844,700	59,000	32,100	100,600	4,000
Computer/math sciences, total	262,600	181,700	80,900	191,600	10,700	4,900	54,400	1,000
Computer/information sciences	160,900	118,300	42,600	107,000	5,700	3,000	44,700	400
Mathematical sciences	101,700	63,400	38,300	84,600	5,000	1,900	9,600	600
Life/related sciences, total	164,100	92,400	71,700	136,500	7,700	4,200	15,000	800
Agricultural/food sciences	30,100	20,900	9,100	25,800	800	800	2,400	100
Biological sciences	116,200	60,300	55,900	95,400	6,000	2,800	11,300	600
Environmental life sciences	17,900	11,200	6,700	15,300	800	600	1,200	S
Physical/related sciences, total	113,900	85,400	28,500	94,900	3,100	3,200	12,200	500
Chemistry, except biochemistry	37,400	25,000	12,400	29,200	1,500	700	5,900	S
Earth science, geology and oceanography	34,200	26,000	8,200	30,000	500	1,400	2,200	200
Physics/astronomy	32,500	28,100	4,500	27,400	700	800	3,500	100
Other physical sciences	9,800	6,500	3,400	8,300	400	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: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian/Pacific Islander	Other
Master's — continued								
Social/related sciences, total	499,800	222,500	277,300	421,700	37,500	19,700	19,000	1,800
Economics	43,700	31,100	12,600	33,500	2,700	2,500	4,900	100
Political/related sciences	67,400	40,600	26,800	56,800	3,300	3,900	3,100	300
Psychology	276,100	98,300	177,800	239,400	20,700	9,600	5,200	1,200
Sociology/anthropology	44,400	20,200	24,200	36,000	3,300	1,700	3,400	100
Other social sciences	68,100	32,300	35,900	55,900	7,400	2,100	2,500	100
Engineering, total	450,800	405,800	45,000	331,500	8,700	15,900	93,900	800
Aerospace/related engineering	17,800	17,100	800	16,100	200	400	1,100	S
Chemical engineering	22,000	19,100	2,900	15,800	500	800	4,900	S
Civil/architectural engineering	73,300	65,000	8,400	52,600	1,200	4,000	15,400	100
Electrical/related engineering	151,300	139,900	11,500	107,300	3,200	5,100	35,600	200
Industrial engineering	23,500	19,200	4,300	15,700	1,000	1,100	5,600	100
Mechanical engineering	68,300	64,100	4,200	50,100	900	1,300	15,500	400
Other engineering	94,600	81,600	13,000	73,900	1,800	3,100	15,700	100
Non-S&E degrees, total	1,490,800	883,400	607,300	1,264,300	100,900	50,100	72,200	3,400
Doctorate								
All degree fields, total	736,700	552,200	184,500	583,300	25,800	21,200	103,800	2,600
S&E degree fields, total	614,600	466,400	148,100	485,400	14,400	17,100	95,300	2,300
Sciences, total	509,000	368,200	140,800	416,300	12,700	14,300	63,600	2,100
Computer/math sciences, total	40,600	34,500	6,100	31,000	600	1,000	7,700	300
Computer/information sciences	12,100	10,200	1,800	8,400	200	300	3,000	300
Mathematical sciences	28,500	24,300	4,200	22,600	400	700	4,700	S
Life/related sciences, total	176,200	122,300	53,900	139,200	4,500	5,800	26,000	600
Agricultural/food sciences	18,100	15,200	2,800	14,500	400	800	2,400	100
Biological sciences	153,100	102,700	50,400	120,200	4,100	4,900	23,300	500
Environmental life sciences	5,000	4,400	700	4,500	100	100	300	S
Physical/related sciences, total	125,900	109,400	16,500	100,000	1,600	2,500	21,500	300
Chemistry, except biochemistry	63,600	53,000	10,600	48,400	1,100	1,500	12,400	200
Earth science, geology and oceanography	16,500	14,500	2,000	14,700	100	300	1,500	S
Physics/astronomy	43,800	40,400	3,400	35,500	300	700	7,300	100
Other physical sciences	1,900	1,500	400	1,500	S	S	400	S
Social/related sciences, total	166,400	102,000	64,400	146,000	6,000	5,000	8,500	800
Economics	22,500	18,800	3,700	18,600	600	500	2,800	S
Political/related sciences	16,700	13,100	3,600	14,400	900	400	900	S
Psychology	88,800	47,600	41,100	80,500	2,800	2,700	2,300	500
Sociology/anthropology	23,100	13,200	9,800	20,100	1,000	800	1,000	200
Other social sciences	15,300	9,300	6,100	12,500	600	600	1,500	100

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Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian/Pacific Islander	Other
Doctorate — continued								
Engineering, total	105,600	98,200	7,300	69,100	1,800	2,800	31,700	200
Aerospace/related engineering	4,900	4,700	200	3,800	100	100	900	S
Chemical engineering	13,600	12,600	1,000	8,800	200	200	4,400	S
Civil/architectural engineering	9,900	9,100	800	6,900	200	300	2,600	S
Electrical/related engineering	28,300	26,600	1,700	17,700	400	800	9,300	S
Industrial engineering	3,300	2,700	500	2,100	100	300	800	S
Mechanical engineering	13,500	13,200	300	8,000	300	300	4,900	S
Other engineering	32,100	29,300	2,800	21,800	600	800	8,800	100
Non-S&E degrees, total	122,100	85,800	36,400	97,900	11,400	4,100	8,500	300

¹ Total includes professional degrees not broken out separately.

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, 1997, or 1999 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 Statistics Division, 1999 SESTAT (Scientists and Engineers Statistical Data System)