

Table E-11. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and years since degree: 1999

Highest degree, occupation, and sex	Employed S&Es, total	Years since degree							
		<5 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35+ years
All degree levels¹									
All occupations, total	10,981,600	1,983,100	1,713,800	1,631,000	1,656,300	1,561,200	1,250,600	637,300	548,300
Male	7,171,500	1,048,900	1,017,000	1,047,900	1,088,300	1,092,500	940,500	492,800	443,600
Female	3,810,200	934,200	696,800	583,100	568,000	468,700	310,100	144,500	104,800
S&E occupations, total	3,540,800	706,500	624,300	582,900	539,400	425,500	323,700	191,400	147,200
Male	2,705,000	478,400	450,200	439,900	413,500	344,300	278,100	166,400	134,300
Female	835,800	228,100	174,100	143,000	125,900	81,200	45,600	25,000	12,900
Scientists, total	2,170,500	465,300	396,300	364,700	322,700	263,500	191,800	101,500	64,800
Male	1,464,800	279,900	256,100	244,200	215,000	189,700	148,100	78,100	53,700
Female	705,800	185,500	140,200	120,500	107,600	73,800	43,700	23,400	11,100
Computer/math scientists, total	1,167,400	214,100	218,200	224,600	188,800	144,600	102,400	50,200	24,400
Male	850,600	156,800	161,500	159,000	130,800	108,200	78,600	35,300	20,500
Female	316,700	57,300	56,700	65,600	58,000	36,400	23,900	14,900	3,900
Life/related scientists, total ..	341,900	84,400	58,000	51,000	40,500	44,700	30,900	17,300	15,100
Male	217,500	42,200	32,100	33,200	26,800	32,100	24,400	14,300	12,400
Female	124,400	42,200	25,900	17,900	13,700	12,600	6,500	3,100	2,700
Physical/related scientists, total	297,900	64,900	54,600	38,600	42,900	31,800	29,000	20,400	15,700
Male	229,400	42,500	38,600	30,100	34,900	26,600	24,700	18,300	13,800
Female	68,400	22,300	16,100	8,600	8,000	5,200	4,300	2,100	1,900
Social/related scientists, total	363,400	101,900	65,400	50,500	50,500	42,400	29,500	13,600	9,700
Male	167,300	38,300	23,900	22,000	22,600	22,700	20,400	10,300	7,000
Female	196,200	63,600	41,500	28,500	27,900	19,600	9,100	3,300	2,700
Engineers, total	1,370,300	241,200	228,000	218,200	216,800	162,000	131,900	89,800	82,400
Male	1,240,200	198,500	194,200	195,700	198,500	154,600	130,000	88,200	80,600
Female	130,000	42,700	33,900	22,500	18,300	7,400	1,900	1,600	1,800
Non-S&E occupations, total	7,440,800	1,276,600	1,089,500	1,048,100	1,116,900	1,135,700	926,900	445,900	401,200
Male	4,466,400	570,500	566,700	608,100	674,800	748,200	662,400	326,400	309,300
Female	2,974,300	706,100	522,800	440,100	442,100	387,500	264,500	119,500	91,900
Managers/administrators	2,035,600	204,700	255,100	309,200	342,100	350,300	307,000	148,500	118,700
Male	1,429,100	111,600	150,100	203,800	234,700	260,800	244,800	122,100	101,000
Female	606,500	93,000	104,900	105,400	107,400	89,500	62,200	26,300	17,700
Other non-S&E occupations ..	5,405,200	1,071,900	834,400	738,900	774,800	785,400	619,900	297,500	282,400
Male	3,037,300	458,900	416,600	404,300	440,100	487,400	417,600	204,300	208,200
Female	2,367,900	613,100	417,800	334,600	334,700	298,000	202,300	93,200	74,200

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

Table E-11. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and years since degree: 1999

Highest degree, occupation, and sex	Employed S&Es, total	Years since degree							
		<5 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35+ years
Bachelor's									
All occupations, total	6,350,100	1,153,700	982,700	892,200	925,600	872,300	750,000	383,200	390,400
Male	4,084,400	590,900	572,000	590,800	615,200	591,900	540,000	278,300	305,300
Female	2,265,700	562,800	410,700	301,400	310,400	280,300	210,000	104,900	85,100
S&E occupations, total	1,994,400	361,200	331,800	340,200	325,200	241,300	183,200	110,000	101,600
Male	1,564,700	248,300	245,500	268,200	257,200	199,000	158,200	94,500	93,900
Female	429,700	112,900	86,300	72,000	68,000	42,300	24,900	15,400	7,700
Scientists, total	1,087,100	223,200	197,800	187,300	169,600	133,400	94,100	48,900	32,700
Male	744,300	137,500	130,900	130,800	115,600	97,200	70,800	34,700	26,800
Female	342,800	85,700	66,900	56,500	54,000	36,200	23,300	14,200	5,900
Computer/math scientists, total	740,500	114,500	128,200	151,500	130,500	97,900	65,000	34,000	18,800
Male	538,900	87,200	96,200	105,800	89,300	73,100	49,400	22,700	15,300
Female	201,600	27,300	32,000	45,800	41,200	24,800	15,600	11,300	3,600
Life/related scientists, total ..	135,500	41,800	23,200	16,200	14,400	16,400	12,000	6,800	4,800
Male	76,900	18,800	11,600	10,600	8,200	10,200	8,800	5,300	3,400
Female	58,600	23,000	11,700	5,600	6,200	6,200	3,200	1,500	1,300
Physical/related scientists, total	139,600	35,000	27,500	15,500	19,200	14,300	13,400	6,600	8,000
Male	101,700	20,100	18,500	12,500	15,800	11,300	10,700	5,700	7,000
Female	38,000	14,800	9,000	3,000	3,400	3,000	2,600	900	1,000
Social/related scientists, total	71,400	31,900	18,800	4,100	5,500	4,800	3,800	1,500	1,100
Male	26,800	11,300	4,700	1,900	2,300	2,600	1,900	900	1,100
Female	44,600	20,600	14,100	2,100	3,200	2,200	1,900	500	S
Engineers, total	907,400	138,000	134,000	152,900	155,600	107,900	89,000	61,000	68,900
Male	820,400	110,800	114,500	137,400	141,500	101,800	87,400	59,800	67,100
Female	86,900	27,200	19,500	15,500	14,100	6,100	1,600	1,200	1,800
Non-S&E occupations, total	4,355,700	792,500	650,900	552,000	600,400	631,000	566,800	273,200	288,800
Male	2,519,700	342,600	326,600	322,600	358,000	393,000	381,800	183,800	211,400
Female	1,836,000	449,900	324,300	229,400	242,400	238,000	185,100	89,400	77,400
Managers/administrators	1,156,800	103,700	134,600	163,900	186,200	188,500	190,100	96,400	93,500
Male	801,400	52,200	70,900	109,800	132,300	134,900	148,200	75,300	77,700
Female	355,500	51,500	63,600	54,100	53,900	53,600	41,900	21,100	15,800
Other non-S&E occupations ..	3,198,800	688,900	516,300	388,100	414,200	442,500	376,700	176,900	195,300
Male	1,718,300	290,400	255,600	212,800	225,700	258,000	233,600	108,500	133,600
Female	1,480,500	398,400	260,700	175,300	188,500	184,500	143,200	68,400	61,600

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

Table E-11. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and years since degree: 1999

Highest degree, occupation, and sex	Employed S&Es, total	Years since degree							
		<5 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35+ years
Master's									
All occupations, total	2,982,000	589,100	486,600	479,800	462,400	424,200	317,100	149,600	73,100
Male	1,871,200	318,200	290,100	286,600	277,300	288,000	236,400	116,900	57,700
Female	1,110,800	270,900	196,500	193,100	185,200	136,200	80,700	32,700	15,300
S&E occupations, total	1,032,100	249,500	203,600	162,700	143,700	118,000	84,500	46,900	23,200
Male	751,200	167,700	144,100	114,800	102,100	92,700	70,400	40,000	19,200
Female	280,900	81,700	59,400	47,900	41,600	25,300	14,200	6,800	4,000
Scientists, total	655,500	166,700	125,900	109,300	91,500	72,800	51,700	24,800	12,700
Male	411,400	97,700	79,100	67,300	53,800	48,600	37,700	18,400	8,700
Female	244,200	69,000	46,800	42,000	37,700	24,200	14,000	6,400	4,000
Computer/math scientists, total	354,100	83,900	75,600	62,500	49,400	37,700	29,400	12,000	3,600
Male	253,700	58,800	54,800	44,000	34,400	27,800	21,900	8,600	3,300
Female	100,500	25,100	20,800	18,500	15,000	9,900	7,500	3,400	300
Life/related scientists, total ..	72,500	17,600	12,400	14,400	7,900	10,800	5,200	2,200	2,100
Male	44,000	9,100	6,200	8,700	4,500	8,600	4,100	1,700	1,100
Female	28,500	8,600	6,100	5,600	3,400	2,300	1,100	500	900
Physical/related scientists, total	73,000	16,600	13,600	10,300	11,500	7,900	5,500	5,000	2,500
Male	53,700	12,000	9,500	7,000	8,400	6,300	4,300	4,300	1,800
Female	19,300	4,600	4,100	3,300	3,100	1,600	1,100	700	700
Social/related scientists, total	155,900	48,600	24,300	22,100	22,800	16,300	11,700	5,600	4,500
Male	60,000	17,900	8,600	7,500	6,400	5,900	7,500	3,800	2,400
Female	95,900	30,700	15,700	14,600	16,300	10,400	4,200	1,800	2,100
Engineers, total	376,500	82,800	77,700	53,400	52,200	45,200	32,800	22,000	10,500
Male	339,800	70,000	65,000	47,500	48,400	44,200	32,600	21,600	10,500
Female	36,700	12,800	12,700	5,900	3,800	1,000	200	400	S
Non-S&E occupations, total	1,949,900	339,700	283,000	317,100	318,700	306,200	232,600	102,800	49,800
Male	1,120,000	150,500	146,000	171,800	175,100	195,200	166,000	76,800	38,500
Female	829,900	189,200	137,100	145,300	143,600	111,000	66,600	25,900	11,300
Managers/administrators	726,600	84,700	101,800	126,400	129,600	130,600	95,500	38,800	19,200
Male	514,800	50,500	66,300	83,000	86,000	99,800	77,400	34,300	17,500
Female	211,800	34,200	35,500	43,400	43,600	30,800	18,100	4,500	1,700
Other non-S&E occupations ..	1,223,300	255,000	181,200	190,700	189,200	175,600	137,100	63,900	30,600
Male	605,300	100,100	79,600	88,800	89,100	95,400	88,600	42,500	21,100
Female	618,000	154,900	101,600	101,900	100,000	80,200	48,500	21,400	9,500

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		<5 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35+ years
Doctorate									
All occupations, total	736,700	128,200	127,100	110,600	101,600	97,900	89,800	51,600	29,900
Male	552,200	82,200	83,400	77,400	75,100	79,100	79,600	47,200	28,200
Female	184,500	45,900	43,700	33,200	26,500	18,800	10,200	4,400	1,800
S&E occupations, total	484,100	92,000	86,700	74,500	65,000	59,700	54,200	33,200	18,800
Male	368,900	61,300	59,400	53,200	50,100	48,800	47,700	30,800	17,600
Female	115,200	30,700	27,300	21,400	14,900	10,800	6,500	2,500	1,200
Scientists, total	399,900	71,800	70,800	62,600	57,200	50,900	44,300	26,400	15,900
Male	290,900	43,800	45,100	42,300	42,700	40,400	37,900	24,000	14,700
Female	109,100	28,100	25,700	20,300	14,500	10,500	6,400	2,500	1,200
Computer/math scientists, total	67,100	13,300	12,900	10,000	8,600	8,500	7,600	4,100	2,000
Male	54,900	10,200	9,500	8,600	6,700	7,000	6,900	4,000	1,900
Female	12,200	3,100	3,400	1,400	1,900	1,500	700	200	100
Life/related scientists, total ..	121,100	24,600	22,400	18,700	15,700	14,700	12,600	7,700	4,700
Male	86,200	14,300	14,300	12,300	11,900	11,900	10,400	6,800	4,300
Female	34,900	10,200	8,100	6,400	3,900	2,800	2,200	800	400
Physical/related scientists, total	84,900	12,900	13,500	12,800	12,200	9,600	10,100	8,800	5,100
Male	73,700	10,100	10,600	10,500	10,700	9,000	9,500	8,300	5,000
Female	11,200	2,800	2,900	2,200	1,500	500	600	500	100
Social/related scientists, total	126,900	21,000	22,000	21,200	20,700	18,100	14,000	5,900	4,000
Male	76,100	9,100	10,700	10,900	13,500	12,500	11,000	4,900	3,500
Female	50,800	11,900	11,300	10,300	7,200	5,600	3,000	1,000	600
Engineers, total	84,200	20,100	15,800	11,900	7,800	8,800	9,900	6,800	2,900
Male	78,000	17,500	14,200	10,800	7,400	8,500	9,900	6,800	2,900
Female	6,200	2,600	1,600	1,100	400	300	100	S	S
Non-S&E occupations, total	252,600	36,200	40,400	36,000	36,600	38,300	35,600	18,400	11,100
Male	183,400	21,000	24,000	24,200	25,000	30,300	31,900	16,400	10,500
Female	69,300	15,200	16,400	11,800	11,600	8,000	3,700	1,900	600
Managers/administrators	98,400	12,000	12,000	11,000	14,800	20,100	16,700	8,000	3,900
Male	77,500	7,800	8,400	7,500	11,100	16,800	14,800	7,500	3,700
Female	20,900	4,100	3,600	3,500	3,700	3,300	1,900	400	200
Other non-S&E occupations ..	154,200	24,200	28,400	25,100	21,800	18,100	18,800	10,400	7,300
Male	105,800	13,100	15,700	16,800	13,900	13,500	17,100	8,900	6,800
Female	48,400	11,100	12,700	8,300	7,900	4,700	1,700	1,500	500

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)