

Table E-11. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and years since degree: 1997

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, total²	10,585,600	1,892,900	1,742,500	1,726,000	1,616,600	1,548,200	1,033,900	523,600	501,800
Male	7,037,600	1,033,700	1,067,800	1,108,700	1,091,200	1,111,600	794,100	412,200	418,500
Female	3,548,000	859,200	674,800	617,300	525,400	436,600	239,900	111,500	83,300
S&E occupations, total	3,369,400	679,300	624,800	610,300	499,400	391,500	275,600	152,300	136,200
Male	2,606,100	474,400	457,900	463,200	387,800	321,200	241,700	134,800	125,100
Female	763,300	204,900	166,900	147,200	111,500	70,300	33,800	17,500	11,200
Scientists, total	1,995,100	428,100	383,000	363,400	292,600	239,300	156,700	76,800	55,100
Male	1,355,400	262,900	249,800	242,200	196,400	173,400	125,000	60,300	45,400
Female	639,600	165,100	133,200	121,200	96,300	66,000	31,700	16,500	9,700
Computer/math scientists, total	1,039,500	190,400	211,700	220,000	156,800	125,100	81,700	35,300	18,600
Male	758,600	141,400	151,100	157,600	113,300	91,000	62,900	26,800	14,500
Female	280,900	49,000	60,600	62,400	43,400	34,100	18,800	8,500	4,100
Life/related scientists, total ..	321,800	73,100	62,900	45,300	46,600	40,100	25,900	15,700	12,200
Male	205,900	38,500	35,700	27,500	28,200	31,300	21,800	12,000	10,900
Female	115,900	34,600	27,200	17,800	18,400	8,800	4,100	3,600	1,300
Physical/related scientists, total	284,900	62,600	52,300	43,500	39,000	29,500	26,900	14,700	16,200
Male	223,100	43,100	39,100	33,300	32,100	23,500	24,100	13,300	14,600
Female	61,800	19,600	13,200	10,300	6,900	6,000	2,800	1,400	1,600
Social/related scientists, total	349,000	101,900	56,100	54,600	50,300	44,600	22,200	11,100	8,000
Male	167,900	39,900	23,900	23,800	22,800	27,600	16,300	8,200	5,400
Female	181,100	62,000	32,200	30,800	27,500	17,000	6,000	2,900	2,600
Engineers, total	1,374,400	251,200	241,800	246,900	206,800	152,200	118,800	75,500	81,200
Male	1,250,700	211,500	208,100	221,000	191,500	147,800	116,700	74,400	79,700
Female	123,700	39,800	33,700	25,900	15,300	4,400	2,100	1,000	1,500
Non-S&E occupations, total	7,216,200	1,213,600	1,117,700	1,115,700	1,117,200	1,156,700	758,300	371,400	365,500
Male	4,431,500	559,300	609,800	645,600	703,400	790,300	552,300	277,400	293,400
Female	2,784,700	654,300	507,900	470,100	413,900	366,300	206,000	94,000	72,200
Managers/administrators	2,019,900	189,500	257,900	329,400	353,000	390,100	258,700	130,200	111,100
Male	1,453,100	111,100	153,400	218,000	253,100	295,600	215,600	108,000	98,400
Female	566,800	78,400	104,500	111,500	99,900	94,500	43,100	22,200	12,700
Other non-S&E occupations ..	5,196,300	1,024,100	859,800	786,300	764,200	766,600	499,700	241,200	254,400
Male	2,978,400	448,200	456,400	427,600	450,300	494,700	336,800	169,400	195,000
Female	2,217,900	575,900	403,400	358,600	313,900	271,800	162,900	71,800	59,400

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: 1997

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, total²	6,193,700	1,117,100	990,900	975,500	900,100	889,500	628,000	332,700	359,800
Male	4,056,500	596,300	600,400	642,500	601,900	616,300	460,700	247,600	290,900
Female	2,137,200	520,800	390,500	333,000	298,300	273,200	167,400	85,100	68,900
S&E occupations, total	1,916,800	344,100	347,800	376,200	295,300	215,000	152,500	89,700	96,200
Male	1,521,800	245,200	261,400	294,600	237,100	179,600	135,400	79,300	89,200
Female	395,000	98,900	86,400	81,600	58,100	35,400	17,100	10,400	7,000
Scientists, total	1,000,200	200,400	197,200	199,200	147,700	118,100	73,300	36,000	28,300
Male	688,400	126,800	131,900	136,100	101,500	85,600	57,800	26,400	22,200
Female	311,800	73,600	65,300	63,100	46,200	32,400	15,400	9,600	6,100
Computer/math scientists, total	675,300	102,700	132,100	159,300	104,400	86,100	53,400	24,200	13,200
Male	487,900	77,700	92,100	112,200	74,700	63,400	41,100	17,300	9,400
Female	187,400	25,000	40,000	47,100	29,700	22,700	12,300	6,800	3,800
Life/related scientists, total ..	125,200	32,700	26,300	14,900	17,800	14,200	8,100	6,600	4,700
Male	74,300	16,200	14,600	7,700	8,700	11,200	6,800	5,100	4,100
Female	50,900	16,500	11,800	7,200	9,100	3,000	1,300	1,500	600
Physical/related scientists, total	131,700	31,400	25,900	19,400	19,700	11,500	10,200	4,700	8,900
Male	97,100	20,100	19,200	14,000	16,000	7,400	9,000	3,800	7,600
Female	34,600	11,300	6,700	5,400	3,700	4,100	1,100	900	1,300
Social/related scientists, total	68,000	33,700	12,900	5,700	5,800	6,200	1,700	600	1,500
Male	29,100	12,900	6,000	2,200	2,100	3,700	1,000	100	1,100
Female	38,900	20,800	6,900	3,500	3,700	2,500	700	500	300
Engineers, total	916,600	143,700	150,500	177,000	147,600	96,900	79,200	53,700	67,900
Male	833,400	118,400	129,400	158,500	135,600	94,000	77,500	53,000	67,000
Female	83,200	25,300	21,100	18,500	12,000	3,000	1,700	800	900
Non-S&E occupations, total	4,276,900	773,000	643,100	599,300	604,900	674,500	475,500	243,000	263,600
Male	2,534,700	351,000	339,100	347,900	364,700	436,700	325,300	168,300	201,600
Female	1,742,200	421,900	304,100	251,400	240,100	237,900	150,200	74,700	61,900
Managers/administrators	1,141,100	88,700	125,700	178,900	187,700	225,200	158,700	88,600	87,700
Male	808,500	47,200	70,600	120,800	135,500	160,900	127,000	70,200	76,200
Female	332,600	41,400	55,100	58,100	52,200	64,300	31,700	18,400	11,400
Other non-S&E occupations ..	3,135,800	684,300	517,400	420,400	417,200	449,400	316,900	154,400	175,900
Male	1,726,200	303,800	268,400	227,100	229,300	275,800	198,300	98,100	125,400
Female	1,409,600	380,500	249,000	193,300	187,900	173,600	118,600	56,300	50,500

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: 1997

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, total²	2,819,800	543,700	501,400	474,400	450,600	413,000	260,300	110,800	65,600
Male	1,800,500	298,900	302,200	281,300	284,900	289,700	199,700	88,700	55,000
Female	1,019,300	244,800	199,200	193,100	165,600	123,400	60,600	22,100	10,600
S&E occupations, total	967,900	238,900	194,000	157,900	135,600	115,100	70,200	35,600	20,700
Male	715,300	166,600	139,900	113,300	98,900	90,400	58,700	30,200	17,500
Female	252,600	72,300	54,100	44,700	36,700	24,700	11,500	5,300	3,200
Scientists, total	592,000	150,100	118,400	98,500	85,800	69,200	40,600	19,000	10,400
Male	374,400	90,300	75,100	60,300	52,000	45,600	29,400	13,900	7,700
Female	217,600	59,800	43,300	38,200	33,800	23,500	11,100	5,100	2,700
Computer/math scientists, total	301,600	73,600	68,700	51,800	43,600	31,400	20,500	8,300	3,800
Male	219,300	53,400	50,700	37,600	32,000	20,600	14,600	6,800	3,500
Female	82,300	20,200	18,000	14,200	11,600	10,700	5,800	1,500	300
Life/related scientists, total ..	70,300	17,100	14,500	10,400	10,700	9,300	4,700	2,500	1,000
Male	40,000	8,500	7,300	6,100	5,900	7,200	3,400	1,000	600
Female	30,300	8,600	7,300	4,400	4,800	2,100	1,200	1,400	500
Physical/related scientists, total	69,100	16,900	13,000	10,900	8,500	7,800	6,400	3,400	2,200
Male	52,600	11,600	9,300	8,100	6,500	6,600	5,400	2,900	2,100
Female	16,500	5,300	3,700	2,800	2,000	1,200	1,100	400	100
Social/related scientists, total	151,100	42,500	22,200	25,400	23,000	20,600	9,000	4,800	3,400
Male	62,500	16,700	7,900	8,600	7,600	11,100	6,000	3,100	1,600
Female	88,600	25,800	14,400	16,900	15,400	9,500	3,000	1,700	1,800
Engineers, total	375,900	88,800	75,600	59,400	49,700	45,900	29,600	16,600	10,300
Male	340,900	76,300	64,700	53,000	46,800	44,800	29,200	16,300	9,700
Female	34,900	12,400	10,800	6,400	2,900	1,200	400	300	500
Non-S&E occupations, total	1,851,900	304,900	307,400	316,400	315,000	298,000	190,100	75,200	44,900
Male	1,085,200	132,300	162,300	168,000	186,100	199,300	141,100	58,500	37,600
Female	766,700	172,500	145,000	148,400	128,900	98,700	49,100	16,700	7,300
Managers/administrators	724,800	84,900	116,200	125,400	134,200	136,600	77,200	33,600	16,800
Male	522,400	53,100	71,800	80,100	94,700	110,100	66,800	30,200	15,700
Female	202,400	31,800	44,400	45,400	39,500	26,400	10,400	3,400	1,200
Other non-S&E occupations ..	1,127,100	220,000	191,200	191,000	180,800	161,400	112,900	41,600	28,100
Male	562,800	79,200	90,600	88,000	91,400	89,200	74,300	28,300	21,900
Female	564,300	140,800	100,700	103,100	89,400	72,300	38,600	13,400	6,200

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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, total²	696,000	127,900	116,300	108,600	99,400	93,400	85,300	39,500	25,600
Male	528,000	81,400	78,800	76,400	75,100	77,800	77,400	36,900	24,300
Female	168,000	46,500	37,600	32,200	24,400	15,600	7,900	2,600	1,200
S&E occupations, total	454,700	92,500	80,900	70,100	61,800	56,000	51,600	25,400	16,400
Male	348,300	60,400	56,000	50,900	47,800	47,300	46,500	23,800	15,700
Female	106,400	32,100	24,900	19,200	14,000	8,800	5,100	1,600	800
Scientists, total	375,300	74,200	65,400	60,000	53,100	46,800	41,700	20,200	13,800
Male	274,200	44,200	42,200	41,600	39,500	38,300	36,700	18,700	13,100
Female	101,000	30,000	23,200	18,300	13,600	8,500	5,000	1,600	800
Computer/math scientists, total	59,000	12,400	10,700	8,200	8,000	7,400	7,800	2,800	1,600
Male	48,500	9,100	8,100	7,000	5,900	6,800	7,200	2,700	1,600
Female	10,500	3,300	2,500	1,200	2,100	700	600	100	S
Life/related scientists, total ..	111,800	22,900	21,400	17,400	15,500	12,900	11,900	5,700	4,100
Male	80,600	13,600	13,500	11,900	11,900	10,300	10,400	5,200	3,800
Female	31,200	9,300	7,900	5,500	3,600	2,700	1,500	500	300
Physical/related scientists, total	83,700	14,100	13,500	13,200	10,600	10,100	10,300	6,700	5,100
Male	73,000	11,200	10,600	11,200	9,400	9,400	9,700	6,500	4,900
Female	10,700	3,000	2,800	2,000	1,200	700	600	200	200
Social/related scientists, total	120,800	24,800	19,900	21,200	19,000	16,400	11,600	5,000	3,000
Male	72,200	10,400	9,900	11,500	12,200	11,800	9,400	4,300	2,700
Female	48,600	14,400	10,000	9,600	6,800	4,500	2,200	700	300
Engineers, total	79,400	18,300	15,500	10,100	8,700	9,200	9,900	5,100	2,600
Male	74,100	16,200	13,800	9,200	8,300	9,000	9,900	5,100	2,600
Female	5,300	2,100	1,700	900	400	200	100	S	S
Non-S&E occupations, total	241,300	35,500	35,400	38,500	37,600	37,400	33,700	14,100	9,100
Male	179,700	21,000	22,800	25,500	27,300	30,500	30,800	13,100	8,700
Female	61,700	14,500	12,700	13,000	10,400	6,900	2,800	1,000	500
Managers/administrators	102,400	9,800	12,300	14,500	18,600	21,000	16,800	6,200	3,100
Male	83,200	7,100	7,800	10,800	14,200	18,500	15,800	5,900	3,000
Female	19,200	2,700	4,400	3,700	4,300	2,600	1,000	300	100
Other non-S&E occupations ..	138,900	25,600	23,200	24,000	19,100	16,400	16,800	7,900	6,000
Male	96,500	13,900	14,900	14,700	13,000	12,100	15,000	7,200	5,700
Female	42,400	11,800	8,200	9,200	6,000	4,300	1,900	700	300

1 Includes professional degrees
 2 Total excludes 18,700 individuals who reported never having worked.

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)