

**Table D-9. U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>All degree levels<sup>1</sup></b>						
<b>All occupations, total<sup>2</sup></b> .....	12,512,000	1,688,400	3,048,900	3,696,600	2,339,400	1,738,800
Male .....	8,097,900	870,500	1,861,600	2,370,700	1,666,600	1,328,500
Female .....	4,414,100	817,900	1,187,300	1,325,800	672,800	410,300
<b>S&amp;E occupations, total</b> .....	3,899,000	520,200	1,145,500	1,041,800	646,800	544,700
Male .....	3,006,600	353,000	835,400	790,900	530,600	490,600
Female .....	898,400	167,200	310,100	250,800	116,100	54,100
<b>Scientists, total</b> .....	2,261,500	324,500	669,100	656,400	384,000	227,400
Male .....	1,506,700	193,900	428,100	432,300	274,500	177,900
Female .....	754,800	130,600	241,000	224,200	109,500	49,500
<b>Computer/math scientists, total</b> ....	1,129,700	143,200	400,000	347,400	174,000	65,100
Male .....	809,200	105,900	278,200	242,600	130,300	52,200
Female .....	320,500	37,300	121,800	104,800	43,700	12,800
<b>Life/related scientists, total</b> .....	387,300	65,800	98,900	108,200	67,100	47,200
Male .....	242,700	32,300	51,700	71,700	48,400	38,600
Female .....	144,500	33,500	47,200	36,500	18,700	8,600
<b>Physical/related scientists, total</b> ...	343,500	49,700	89,300	87,200	56,700	60,500
Male .....	264,400	33,100	64,100	66,100	48,600	52,500
Female .....	79,100	16,600	25,200	21,100	8,100	8,000
<b>Social/related scientists, total</b> .....	401,000	65,800	80,900	113,600	86,200	54,500
Male .....	190,300	22,600	34,100	51,900	47,200	34,500
Female .....	210,600	43,100	46,800	61,700	39,000	20,000
<b>Engineers, total</b> .....	1,637,500	195,700	476,400	385,300	262,800	317,300
Male .....	1,493,900	159,100	407,300	358,700	256,100	312,700
Female .....	143,600	36,600	69,100	26,700	6,600	4,600
<b>Non-S&amp;E occupations, total</b> .....	8,613,100	1,168,200	1,903,300	2,654,800	1,692,600	1,194,100
Male .....	5,097,300	517,500	1,026,200	1,579,800	1,136,000	837,800
Female .....	3,515,700	650,700	877,100	1,075,000	556,700	356,200
<b>Managers/administrators</b> .....	2,321,300	136,800	473,800	796,300	566,800	347,600
Male .....	1,663,700	68,100	299,000	548,100	452,600	295,800
Female .....	657,600	68,700	174,800	248,200	114,200	51,800
<b>Other non-S&amp;E occupations</b> .....	6,291,800	1,031,400	1,429,600	1,858,500	1,125,800	846,500
Male .....	3,433,700	449,400	727,200	1,031,700	683,400	542,000
Female .....	2,858,100	582,000	702,400	826,800	442,500	304,400

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

**Table D-9. U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>Bachelor's</b>						
<b>All occupations, total<sup>2</sup></b> .....	7,456,800	1,420,300	1,907,700	2,048,900	1,112,800	967,000
Male .....	4,731,300	731,500	1,167,900	1,308,100	786,500	737,200
Female .....	2,725,500	688,800	739,800	740,800	326,400	229,800
<b>S&amp;E occupations, total</b> .....	2,252,100	412,300	689,500	548,800	294,500	306,900
Male .....	1,776,100	281,200	517,100	437,500	254,700	285,500
Female .....	476,000	131,100	172,400	111,300	39,800	21,400
<b>Scientists, total</b> .....	1,135,500	252,900	371,400	302,400	133,900	74,800
Male .....	757,900	152,400	242,700	207,800	98,300	56,600
Female .....	377,700	100,500	128,700	94,700	35,600	18,200
<b>Computer/math scientists, total</b> ....	731,900	115,000	274,100	219,800	93,700	29,300
Male .....	516,300	85,000	186,600	153,400	69,300	22,000
Female .....	215,600	30,000	87,500	66,300	24,400	7,400
<b>Life/related scientists, total</b> .....	158,100	54,500	39,200	34,700	17,200	12,700
Male .....	90,400	26,300	19,100	23,100	12,500	9,500
Female .....	67,800	28,200	20,100	11,600	4,700	3,200
<b>Physical/related scientists, total</b> ...	163,300	40,800	42,600	35,900	17,800	26,200
Male .....	117,600	26,900	29,900	25,200	14,600	21,000
Female .....	45,600	13,900	12,700	10,700	3,100	5,200
<b>Social/related scientists, total</b> .....	82,200	42,700	15,600	12,100	5,300	6,600
Male .....	33,600	14,300	7,200	6,000	1,900	4,200
Female .....	48,600	28,400	8,400	6,000	3,400	2,400
<b>Engineers, total</b> .....	1,116,600	159,400	318,100	246,400	160,600	232,100
Male .....	1,018,200	128,800	274,400	229,800	156,400	228,900
Female .....	98,300	30,600	43,700	16,600	4,200	3,200
<b>Non-S&amp;E occupations, total</b> .....	5,204,700	1,008,000	1,218,200	1,500,100	818,300	660,000
Male .....	2,955,200	450,300	650,800	870,600	531,700	451,700
Female .....	2,249,500	557,700	567,400	629,500	286,600	208,300
<b>Managers/administrators</b> .....	1,319,600	116,000	300,500	446,400	256,800	199,800
Male .....	931,300	58,200	192,700	307,200	203,200	170,000
Female .....	388,300	57,800	107,800	139,200	53,600	29,800
<b>Other non-S&amp;E occupations</b> .....	3,885,100	892,000	917,700	1,053,700	561,500	460,200
Male .....	2,023,900	392,200	458,100	563,400	328,500	281,700
Female .....	1,861,300	499,900	459,600	490,300	233,000	178,500

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

**Table D-9. U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>Master's</b>						
<b>All occupations, total<sup>2</sup></b> .....	3,311,300	204,800	739,900	1,052,400	817,100	497,100
Male .....	2,066,000	104,700	435,500	626,300	549,600	350,000
Female .....	1,245,300	100,100	304,400	426,100	267,600	147,100
<b>S&amp;E occupations, total</b> .....	1,100,000	97,600	326,900	327,600	210,100	137,800
Male .....	806,700	64,800	229,800	234,600	160,800	116,800
Female .....	293,300	32,800	97,100	93,100	49,400	21,000
<b>Scientists, total</b> .....	671,100	63,500	194,300	212,600	129,800	70,800
Male .....	416,900	36,200	119,500	127,700	82,500	51,000
Female .....	254,200	27,300	74,800	84,900	47,300	19,900
<b>Computer/math scientists, total</b> ....	328,500	26,600	108,400	106,900	60,800	25,700
Male .....	236,500	19,600	77,700	72,800	44,800	21,700
Female .....	91,900	7,000	30,700	34,100	16,000	4,000
<b>Life/related scientists, total</b> .....	83,800	8,400	24,400	26,900	16,400	7,700
Male .....	46,500	4,000	11,500	16,100	9,600	5,200
Female .....	37,300	4,400	12,900	10,800	6,800	2,500
<b>Physical/related scientists, total</b> ...	83,300	7,200	22,400	25,700	15,100	13,000
Male .....	62,500	4,900	15,000	19,100	11,700	11,700
Female .....	20,800	2,200	7,400	6,600	3,300	1,200
<b>Social/related scientists, total</b> .....	175,600	21,400	39,200	53,200	37,500	24,400
Male .....	71,500	7,700	15,400	19,700	16,300	12,300
Female .....	104,100	13,700	23,700	33,400	21,200	12,100
<b>Engineers, total</b> .....	428,900	34,100	132,600	115,000	80,300	67,000
Male .....	389,800	28,600	110,200	106,800	78,300	65,800
Female .....	39,100	5,500	22,300	8,200	2,000	1,200
<b>Non-S&amp;E occupations, total</b> .....	2,211,300	107,200	413,000	724,700	607,000	359,300
Male .....	1,259,300	39,800	205,700	391,700	388,800	233,200
Female .....	952,000	67,300	207,300	333,100	218,200	126,100
<b>Managers/administrators</b> .....	826,600	19,700	156,000	290,000	248,100	112,700
Male .....	591,900	9,500	94,400	196,300	197,800	93,900
Female .....	234,700	10,200	61,700	93,700	50,300	18,800
<b>Other non-S&amp;E occupations</b> .....	1,384,700	87,500	257,000	434,700	358,900	246,600
Male .....	667,400	30,400	111,400	195,400	191,000	139,300
Female .....	717,200	57,100	145,600	239,400	167,900	107,300

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

**Table D-9. U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
<b>Doctorate</b>						
<b>All occupations, total<sup>2</sup></b> .....	789,700	10,500	157,300	228,200	236,800	156,900
Male .....	599,400	6,900	107,400	161,400	188,400	135,300
Female .....	190,300	3,600	49,900	66,800	48,400	21,600
<b>S&amp;E occupations, total</b> .....	511,900	9,300	122,600	151,700	135,900	92,400
Male .....	393,700	6,200	84,800	110,200	110,600	81,900
Female .....	118,100	3,200	37,800	41,400	25,300	10,500
<b>Scientists, total</b> .....	422,700	7,200	97,500	128,900	114,200	74,800
Male .....	310,400	4,600	62,700	89,300	89,400	64,500
Female .....	112,300	2,700	34,900	39,600	24,800	10,300
<b>Computer/math scientists, total</b> ....	64,800	1,600	15,300	19,200	19,200	9,500
Male .....	53,000	1,300	12,200	15,300	15,900	8,300
Female .....	11,900	300	3,100	4,000	3,300	1,200
<b>Life/related scientists, total</b> .....	128,400	2,300	33,000	41,000	30,400	21,800
Male .....	92,800	1,500	19,800	28,500	23,800	19,100
Female .....	35,600	800	13,100	12,500	6,500	2,700
<b>Physical/related scientists, total</b> ...	96,100	1,700	24,200	25,600	23,800	20,800
Male .....	83,900	1,200	19,100	21,700	22,200	19,700
Female .....	12,200	500	5,100	3,800	1,700	1,100
<b>Social/related scientists, total</b> .....	133,300	1,700	25,000	43,000	40,800	22,700
Male .....	80,800	600	11,500	23,800	27,500	17,400
Female .....	52,500	1,100	13,500	19,200	13,300	5,300
<b>Engineers, total</b> .....	89,200	2,100	25,100	22,800	21,600	17,600
Male .....	83,300	1,600	22,200	20,900	21,200	17,400
Female .....	5,900	500	2,900	1,900	400	200
<b>Non-S&amp;E occupations, total</b> .....	277,800	1,100	34,700	76,600	100,900	64,500
Male .....	205,700	700	22,600	51,200	77,800	53,400
Female .....	72,100	400	12,100	25,400	23,100	11,100
<b>Managers/administrators</b> .....	115,300	200	9,500	33,700	48,500	23,400
Male .....	94,600	200	7,200	26,000	40,300	21,000
Female .....	20,700	S	2,300	7,800	8,200	2,400
<b>Other non-S&amp;E occupations</b> .....	162,500	900	25,200	42,800	52,500	41,100
Male .....	111,100	500	15,400	25,200	37,500	32,400
Female .....	51,500	400	9,700	17,600	15,000	8,800

<sup>1</sup> Includes professional degrees

<sup>2</sup> Total excludes 18,700 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 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)