

**Table D-12. U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and race/ethnicity: 1997**

Highest degree, occupation, and sex	S&Es, total	Race/ethnicity				
		White	Black	Hispanic	Asian	Other
<b>All degree levels<sup>1</sup></b>						
<b>All occupations, total<sup>2</sup></b> .....	12,512,000	10,557,900	640,200	422,200	849,400	42,400
Male .....	8,097,900	6,952,800	314,100	249,300	556,800	25,000
Female .....	4,414,100	3,605,100	326,100	172,900	292,600	17,400
<b>S&amp;E occupations, total</b> .....	3,899,000	3,260,200	126,600	114,900	384,700	12,600
Male .....	3,006,600	2,534,700	79,400	84,300	293,300	8,900
Female .....	898,400	725,500	47,100	30,600	91,400	3,700
<b>Scientists, total</b> .....	2,261,500	1,881,900	88,300	62,800	220,400	8,100
Male .....	1,506,700	1,268,700	49,200	37,600	146,400	4,800
Female .....	754,800	613,300	39,100	25,200	73,900	3,300
<b>Computer/math scientists, total</b> ....	1,129,700	917,100	48,000	28,200	133,600	2,800
Male .....	809,200	665,300	28,900	19,200	93,800	1,900
Female .....	320,500	251,800	19,100	8,900	39,800	900
<b>Life/related scientists, total</b> .....	387,300	324,000	11,400	10,700	39,700	1,500
Male .....	242,700	206,800	5,800	6,300	22,900	1,100
Female .....	144,500	117,200	5,600	4,500	16,800	400
<b>Physical/related scientists, total</b> ...	343,500	292,100	10,000	8,800	31,400	1,200
Male .....	264,400	229,700	6,300	6,000	21,500	900
Female .....	79,100	62,400	3,600	2,800	9,900	400
<b>Social/related scientists, total</b> .....	401,000	348,800	18,900	15,100	15,700	2,500
Male .....	190,300	166,900	8,200	6,100	8,300	900
Female .....	210,600	181,900	10,800	9,000	7,400	1,600
<b>Engineers, total</b> .....	1,637,500	1,378,300	38,300	52,100	164,400	4,500
Male .....	1,493,900	1,266,000	30,300	46,700	146,900	4,100
Female .....	143,600	112,300	8,000	5,400	17,500	400
<b>Non-S&amp;E occupations, total</b> .....	8,613,100	7,297,700	513,600	307,300	464,700	29,800
Male .....	5,097,300	4,418,100	234,600	165,000	263,500	16,100
Female .....	3,515,700	2,879,500	279,000	142,300	201,200	13,700
<b>Managers/administrators</b> .....	2,321,300	2,006,300	126,500	68,800	112,800	6,800
Male .....	1,663,700	1,472,000	67,100	44,000	76,000	4,500
Female .....	657,600	534,300	59,400	24,800	36,800	2,300
<b>Other non-S&amp;E occupations</b> .....	6,291,800	5,291,300	387,100	238,500	351,900	23,000
Male .....	3,433,700	2,946,100	167,500	121,000	187,400	11,600
Female .....	2,858,100	2,345,200	219,600	117,500	164,400	11,400

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

**Table D-12. U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and race/ethnicity: 1997**

Highest degree, occupation, and sex	S&Es, total	Race/ethnicity				
		White	Black	Hispanic	Asian	Other
<b>Bachelor's</b>						
<b>All occupations, total<sup>2</sup></b> .....	7,456,800	6,314,700	399,700	272,600	441,200	28,700
Male .....	4,731,300	4,103,200	189,900	156,300	265,900	15,900
Female .....	2,725,500	2,211,400	209,800	116,300	175,200	12,800
<b>S&amp;E occupations, total</b> .....	2,252,100	1,932,200	82,100	69,300	160,400	8,100
Male .....	1,776,100	1,547,200	52,300	52,900	117,900	5,800
Female .....	476,000	385,000	29,700	16,500	42,500	2,300
<b>Scientists, total</b> .....	1,135,500	960,000	53,400	33,600	83,700	4,800
Male .....	757,900	653,400	29,700	20,900	50,900	2,900
Female .....	377,700	306,600	23,700	12,700	32,800	1,900
<b>Computer/math scientists, total</b> ....	731,900	615,700	35,400	19,600	59,200	2,000
Male .....	516,300	441,800	20,800	13,700	38,600	1,300
Female .....	215,600	173,900	14,600	5,800	20,600	700
<b>Life/related scientists, total</b> .....	158,100	134,300	5,700	5,300	11,800	1,000
Male .....	90,400	78,000	2,500	3,000	5,900	800
Female .....	67,800	56,300	3,200	2,200	5,900	200
<b>Physical/related scientists, total</b> ...	163,300	142,000	6,700	4,500	9,600	500
Male .....	117,600	105,600	3,800	2,800	5,000	500
Female .....	45,600	36,400	2,800	1,700	4,700	S
<b>Social/related scientists, total</b> .....	82,200	68,000	5,600	4,300	3,100	1,300
Male .....	33,600	28,000	2,500	1,400	1,400	300
Female .....	48,600	40,000	3,100	2,900	1,700	900
<b>Engineers, total</b> .....	1,116,600	972,200	28,700	35,700	76,700	3,200
Male .....	1,018,200	893,800	22,600	31,900	67,000	2,900
Female .....	98,300	78,400	6,100	3,800	9,700	400
<b>Non-S&amp;E occupations, total</b> .....	5,204,700	4,382,400	317,600	203,300	280,800	20,600
Male .....	2,955,200	2,556,000	137,600	103,400	148,100	10,100
Female .....	2,249,500	1,826,400	180,100	99,800	132,700	10,500
<b>Managers/administrators</b> .....	1,319,600	1,152,100	65,300	41,600	56,200	4,400
Male .....	931,300	833,500	34,300	25,800	35,000	2,700
Female .....	388,300	318,600	31,000	15,900	21,200	1,600
<b>Other non-S&amp;E occupations</b> .....	3,885,100	3,230,400	252,300	161,600	224,600	16,200
Male .....	2,023,900	1,722,500	103,300	77,700	113,000	7,300
Female .....	1,861,300	1,507,800	149,100	84,000	111,500	8,900

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

**Table D-12. U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and race/ethnicity: 1997**

Highest degree, occupation, and sex	S&Es, total	Race/ethnicity				
		White	Black	Hispanic	Asian	Other
<b>Master's</b>						
<b>All occupations, total<sup>2</sup></b> .....	3,311,300	2,756,700	176,100	99,600	270,000	8,800
Male .....	2,066,000	1,731,300	83,700	58,300	187,300	5,400
Female .....	1,245,300	1,025,400	92,400	41,300	82,700	3,500
<b>S&amp;E occupations, total</b> .....	1,100,000	883,800	33,400	31,900	148,100	2,800
Male .....	806,700	648,900	19,600	21,700	114,500	1,900
Female .....	293,300	234,900	13,800	10,100	33,600	900
<b>Scientists, total</b> .....	671,100	542,700	24,900	17,500	84,300	1,700
Male .....	416,900	337,400	13,000	8,800	56,900	800
Female .....	254,200	205,300	12,000	8,600	27,400	900
<b>Computer/math scientists, total</b> ....	328,500	249,000	11,200	6,600	61,100	600
Male .....	236,500	181,000	7,100	4,000	44,000	400
Female .....	91,900	68,000	4,100	2,600	17,100	100
<b>Life/related scientists, total</b> .....	83,800	69,900	3,300	1,700	8,600	200
Male .....	46,500	39,600	1,700	600	4,400	100
Female .....	37,300	30,300	1,600	1,100	4,300	100
<b>Physical/related scientists, total</b> ...	83,300	70,000	1,900	2,200	8,700	500
Male .....	62,500	53,400	1,300	1,500	6,000	200
Female .....	20,800	16,600	600	700	2,600	300
<b>Social/related scientists, total</b> .....	175,600	153,800	8,500	7,000	5,900	500
Male .....	71,500	63,400	2,900	2,600	2,500	100
Female .....	104,100	90,400	5,600	4,300	3,400	300
<b>Engineers, total</b> .....	428,900	341,100	8,500	14,400	63,800	1,100
Male .....	389,800	311,500	6,700	12,900	57,600	1,100
Female .....	39,100	29,600	1,800	1,500	6,200	S
<b>Non-S&amp;E occupations, total</b> .....	2,211,300	1,872,900	142,600	67,700	121,900	6,000
Male .....	1,259,300	1,082,400	64,100	36,500	72,800	3,500
Female .....	952,000	790,500	78,600	31,200	49,100	2,600
<b>Managers/administrators</b> .....	826,600	705,400	50,600	23,000	45,900	1,800
Male .....	591,900	517,300	26,700	14,900	31,800	1,200
Female .....	234,700	188,100	23,900	8,100	14,100	600
<b>Other non-S&amp;E occupations</b> .....	1,384,700	1,167,600	92,000	44,700	76,100	4,300
Male .....	667,400	565,100	37,400	21,600	41,100	2,300
Female .....	717,200	602,500	54,700	23,100	35,000	2,000

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

**Table D-12. U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and race/ethnicity: 1997**

Highest degree, occupation, and sex	S&Es, total	Race/ethnicity				
		White	Black	Hispanic	Asian	Other
<b>Doctorate</b>						
<b>All occupations, total<sup>2</sup></b> .....	789,700	642,800	24,500	21,600	98,100	2,700
Male .....	599,400	489,600	15,000	14,600	78,200	2,000
Female .....	190,300	153,100	9,600	6,900	19,900	700
<b>S&amp;E occupations, total</b> .....	511,900	413,700	10,200	12,100	74,200	1,700
Male .....	393,700	317,400	6,900	8,600	59,600	1,200
Female .....	118,100	96,300	3,300	3,500	14,600	500
<b>Scientists, total</b> .....	422,700	351,300	9,100	10,300	50,400	1,600
Male .....	310,400	259,100	5,900	7,000	37,400	1,100
Female .....	112,300	92,200	3,200	3,300	13,000	500
<b>Computer/math scientists, total</b> ....	64,800	48,800	1,100	1,900	12,800	200
Male .....	53,000	39,900	700	1,400	10,700	200
Female .....	11,900	8,900	400	400	2,100	S
<b>Life/related scientists, total</b> .....	128,400	105,300	1,900	2,800	18,000	300
Male .....	92,800	77,400	1,300	2,000	11,800	200
Female .....	35,600	27,900	600	800	6,200	100
<b>Physical/related scientists, total</b> ...	96,100	79,300	1,400	2,100	13,100	300
Male .....	83,900	70,300	1,200	1,700	10,400	200
Female .....	12,200	9,000	100	400	2,700	S
<b>Social/related scientists, total</b> .....	133,300	117,800	4,700	3,500	6,500	800
Male .....	80,800	71,400	2,700	1,900	4,400	400
Female .....	52,500	46,400	2,000	1,700	2,100	300
<b>Engineers, total</b> .....	89,200	62,500	1,100	1,800	23,800	100
Male .....	83,300	58,400	1,000	1,600	22,200	100
Female .....	5,900	4,100	100	100	1,600	S
<b>Non-S&amp;E occupations, total</b> .....	277,800	229,100	14,300	9,500	23,900	1,000
Male .....	205,700	172,200	8,100	6,000	18,600	800
Female .....	72,100	56,900	6,300	3,500	5,300	200
<b>Managers/administrators</b> .....	115,300	97,000	5,900	2,500	9,300	600
Male .....	94,600	80,800	3,000	2,100	8,100	500
Female .....	20,700	16,100	2,900	400	1,200	100
<b>Other non-S&amp;E occupations</b> .....	162,500	132,100	8,400	7,000	14,600	400
Male .....	111,100	91,400	5,100	3,900	10,500	300
Female .....	51,500	40,700	3,400	3,100	4,100	100

<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)