

Table C-11. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and years since degree: 1997

Level and field of highest degree, and race/ethnicity	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 degree fields, total	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
White	8,877,500	1,480,400	1,429,800	1,443,200	1,367,400	1,337,500	903,500	458,900	456,800
Black	555,600	113,700	98,100	95,500	86,400	86,100	45,200	15,500	15,000
Hispanic	371,500	105,200	69,400	64,800	55,400	40,900	17,800	10,000	8,000
Asian	745,600	182,900	139,700	116,700	103,200	79,000	64,800	38,400	20,900
Other	35,400	10,700	5,600	5,800	4,200	4,800	2,600	700	1,000
S&E degree fields, total	7,704,000	1,482,600	1,257,200	1,177,300	1,092,200	1,081,300	804,100	407,800	401,500
White	6,390,800	1,145,900	1,015,000	970,900	914,800	924,400	699,400	354,700	365,700
Black	395,800	86,000	68,900	66,300	58,200	61,000	32,800	12,000	10,700
Hispanic	282,800	84,000	53,400	44,600	41,200	29,800	14,800	8,300	6,700
Asian	607,700	157,200	116,200	91,800	75,500	62,000	54,800	32,300	17,900
Other	26,900	9,500	3,700	3,700	2,500	4,000	2,300	600	700
Sciences, total	5,794,700	1,174,600	946,400	849,800	810,800	866,400	612,000	287,100	247,700
White	4,841,800	925,600	777,400	704,600	680,100	743,800	536,700	249,900	223,800
Black	345,900	73,700	57,200	57,000	51,200	55,300	30,200	11,800	9,500
Hispanic	212,800	67,700	40,000	30,400	30,500	24,000	10,400	5,600	4,100
Asian	371,800	99,400	68,800	54,700	47,100	39,800	32,400	19,400	10,100
Other	22,600	8,200	3,000	3,100	1,800	3,500	2,300	400	200
Computer/math sciences, total	1,003,300	176,700	212,200	210,400	124,500	107,200	102,000	44,900	25,500
White	802,200	127,900	159,900	166,400	102,500	90,800	89,800	41,300	23,700
Black	58,000	11,200	15,000	12,100	6,400	6,600	4,400	1,300	1,000
Hispanic	29,300	7,300	8,400	6,400	2,800	2,200	1,500	500	100
Asian	110,700	29,500	28,600	24,400	12,700	7,300	5,800	1,700	700
Other	3,100	700	500	1,000	200	200	500	100	S
Life/related sciences, total	1,204,700	230,700	170,200	163,800	193,200	206,500	124,300	63,500	52,500
White	1,022,500	188,500	141,300	137,800	165,900	180,900	109,700	53,800	44,700
Black	53,600	9,700	6,800	9,100	9,300	7,700	4,800	3,000	3,200
Hispanic	39,200	9,100	7,000	5,600	7,200	5,300	2,400	1,500	1,100
Asian	85,200	22,200	14,300	10,700	10,600	11,800	7,100	5,000	3,400
Other	4,100	1,300	700	600	200	800	300	100	100
Physical/related sciences, total	619,200	94,800	86,900	89,400	88,200	85,600	74,900	46,900	52,500
White	521,800	76,800	69,500	76,500	74,200	72,500	64,600	39,800	47,900
Black	21,700	3,600	4,300	2,900	3,300	3,100	2,000	1,100	1,300
Hispanic	16,500	2,900	3,300	3,000	2,400	1,600	1,500	700	1,200
Asian	57,000	11,200	9,400	6,700	8,100	8,000	6,200	5,300	2,100
Other	2,100	400	300	300	100	300	600	100	S
Social/related sciences, total	2,967,600	672,400	477,100	386,200	404,900	467,100	310,800	131,900	117,100
White	2,495,200	532,400	406,700	323,800	337,600	399,600	272,700	114,900	107,500
Black	212,600	49,200	31,200	32,900	32,200	37,800	19,000	6,400	4,000
Hispanic	127,800	48,500	21,300	15,400	18,200	14,900	5,000	3,000	1,600
Asian	118,800	36,500	16,500	12,900	15,700	12,700	13,300	7,300	3,900
Other	13,200	5,800	1,500	1,300	1,300	2,100	900	200	100

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

Table C-11. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and years since degree: 1997

Level and field of highest degree, and race/ethnicity	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 — continued									
Engineering, total	1,909,200	308,000	310,700	327,500	281,400	214,900	192,100	120,700	153,900
White	1,549,000	220,400	237,600	266,300	234,700	180,700	162,600	104,800	141,900
Black	49,900	12,400	11,600	9,300	7,000	5,700	2,600	100	1,200
Hispanic	70,000	16,300	13,500	14,200	10,700	5,800	4,400	2,700	2,600
Asian	235,900	57,800	47,300	37,200	28,400	22,200	22,300	13,000	7,700
Other	4,400	1,300	700	600	700	600	100	100	400
Non-S&E degree fields, total	2,881,700	410,300	485,400	548,700	524,400	466,900	229,900	115,900	100,200
White	2,486,800	334,500	414,800	472,300	452,600	413,100	204,200	104,300	91,100
Black	159,800	27,700	29,300	29,200	28,200	25,100	12,400	3,600	4,400
Hispanic	88,700	21,200	15,900	20,200	14,200	11,100	3,000	1,700	1,300
Asian	137,900	25,700	23,500	24,800	27,700	17,000	10,000	6,100	3,100
Other	8,500	1,200	1,900	2,100	1,800	700	300	200	400
Bachelor's									
All degree fields, total	6,193,700	1,117,100	990,900	975,500	900,100	889,500	628,000	332,700	359,800
White	5,212,700	886,500	822,000	813,200	760,700	767,300	546,500	287,200	329,400
Black	345,000	70,300	60,600	60,900	51,000	51,900	28,800	11,000	10,500
Hispanic	237,700	70,000	43,900	38,500	35,700	25,200	11,400	7,200	5,700
Asian	374,900	82,500	61,300	59,000	50,400	41,700	39,600	26,800	13,600
Other	23,400	7,800	3,000	3,800	2,400	3,500	1,800	400	600
S&E degree fields, total	5,683,700	1,092,200	923,700	854,900	790,400	796,800	581,300	305,700	338,600
White	4,771,000	864,400	763,600	710,300	663,900	687,400	506,900	264,500	310,100
Black	319,500	69,300	56,300	54,000	46,100	47,100	26,500	10,200	9,900
Hispanic	224,000	69,100	41,900	34,600	32,700	22,600	10,800	6,700	5,400
Asian	348,500	81,700	59,400	53,100	46,200	36,300	35,300	23,900	12,700
Other	20,700	7,700	2,600	2,900	1,600	3,400	1,700	400	400
Sciences, total	4,303,400	896,400	713,000	606,400	574,800	646,600	445,400	216,700	204,100
White	3,610,600	714,200	593,700	502,500	480,400	557,800	390,200	187,500	184,400
Black	279,000	60,400	46,900	45,900	39,900	42,600	24,100	10,200	9,000
Hispanic	171,600	57,700	32,200	23,400	24,200	18,700	7,700	4,400	3,400
Asian	224,800	57,300	38,000	32,200	29,300	24,700	21,800	14,300	7,200
Other	17,500	6,800	2,200	2,500	1,100	2,800	1,700	300	200
Computer/math sciences, total	721,600	117,400	153,100	164,700	85,800	73,800	70,500	33,600	22,600
White	590,600	91,000	118,200	133,100	71,300	62,900	62,100	31,000	21,000
Black	47,700	9,000	12,800	10,200	5,200	5,000	3,300	1,000	1,000
Hispanic	24,100	5,800	7,300	5,700	2,300	1,500	1,100	300	100
Asian	56,700	10,900	14,400	14,900	6,800	4,200	3,700	1,200	400
Other	2,600	700	400	800	100	200	400	100	S
Life/related sciences, total ...	884,500	175,400	118,200	114,300	142,600	157,400	89,000	45,500	42,200
White	759,300	145,700	99,400	97,100	123,400	139,900	79,400	38,400	36,000
Black	42,300	7,800	5,100	6,900	7,600	5,700	3,900	2,400	3,000
Hispanic	30,200	7,600	5,000	4,300	5,400	4,300	1,600	1,100	800
Asian	49,800	13,200	8,200	5,600	6,100	7,000	3,900	3,400	2,300
Other	3,000	1,000	500	400	100	600	200	100	100

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

Table C-11. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and years since degree: 1997

Level and field of highest degree, and race/ethnicity	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 — continued									
Physical/related sciences, total	381,900	57,700	51,800	54,200	57,500	51,000	41,400	28,700	39,400
White	326,300	49,200	42,700	47,400	48,800	43,900	35,100	23,500	35,800
Black	16,900	2,800	3,600	2,300	2,600	1,900	1,700	1,000	1,100
Hispanic	11,700	1,900	2,200	1,700	2,000	1,300	1,100	400	1,200
Asian	25,600	3,700	3,200	2,600	4,100	3,800	3,100	3,800	1,400
Other	1,400	200	100	300	100	300	400	100	S
Social/related sciences, total	2,315,500	545,900	389,800	273,300	288,900	364,400	244,500	108,800	99,900
White	1,934,500	428,300	333,300	224,900	236,900	311,200	213,700	94,600	91,600
Black	172,100	40,700	25,500	26,500	24,400	30,100	15,200	5,800	3,900
Hispanic	105,600	42,400	17,600	11,700	14,600	11,700	3,800	2,500	1,300
Asian	92,700	29,600	12,200	9,100	12,300	9,700	10,900	5,900	3,100
Other	10,600	4,900	1,200	1,100	800	1,700	800	100	100
Engineering, total	1,380,300	195,800	210,700	248,500	215,700	150,200	135,800	89,000	134,500
White	1,160,400	150,200	169,800	207,800	183,500	129,600	116,700	77,000	125,700
Black	40,500	8,900	9,400	8,100	6,200	4,500	2,400	S	1,000
Hispanic	52,400	11,500	9,700	11,300	8,500	3,900	3,200	2,300	2,000
Asian	123,700	24,400	21,300	20,900	16,800	11,600	13,600	9,600	5,500
Other	3,200	900	500	400	500	500	S	100	300
Non-S&E degree fields, total	510,000	24,800	67,200	120,600	109,700	92,700	46,800	27,100	21,100
White	441,700	22,100	58,500	102,900	96,800	79,900	39,600	22,700	19,300
Black	25,500	1,000	4,300	6,900	4,900	4,800	2,300	800	500
Hispanic	13,800	900	2,100	3,900	2,900	2,600	600	500	300
Asian	26,400	800	2,000	5,900	4,200	5,400	4,200	3,000	900
Other	2,700	100	400	1,000	800	100	100	100	100
Master's									
All degree fields, total	2,819,800	543,700	501,400	474,400	450,600	413,000	260,300	110,800	65,600
White	2,330,500	415,900	406,600	394,900	376,600	352,000	226,800	99,800	58,000
Black	151,300	33,300	27,400	23,500	24,800	25,500	11,900	2,900	2,000
Hispanic	88,100	25,500	15,500	17,000	13,500	10,100	4,400	800	1,200
Asian	242,000	67,000	50,400	37,700	34,500	24,400	16,800	7,200	4,000
Other	7,900	2,000	1,500	1,300	1,200	900	400	100	300
S&E degree fields, total	1,431,600	282,000	238,300	231,400	217,700	205,900	149,300	67,200	39,800
White	1,144,400	204,500	180,000	186,000	181,100	170,600	128,300	59,200	34,600
Black	63,500	13,600	10,000	10,000	10,200	12,200	5,400	1,600	600
Hispanic	43,600	12,100	8,000	7,500	6,200	5,600	2,400	800	900
Asian	175,900	50,500	39,500	27,400	19,600	17,200	12,800	5,500	3,500
Other	4,200	1,300	800	600	600	300	400	100	200
Sciences, total	1,001,000	191,300	157,000	164,500	162,300	152,700	107,200	42,200	23,700
White	822,800	146,100	123,600	135,300	137,000	127,900	94,200	37,400	21,300
Black	55,500	10,600	8,200	9,000	9,600	11,100	5,300	1,500	400
Hispanic	28,100	7,800	4,800	4,900	4,300	4,300	1,300	500	300
Asian	91,300	25,900	19,800	14,900	11,000	9,200	6,100	2,800	1,700
Other	3,200	1,000	600	400	500	300	300	100	S

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

Table C-11. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and years since degree: 1997

Level and field of highest degree, and race/ethnicity	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 — continued									
Computer/math sciences, total	244,700	51,500	52,800	40,700	34,100	28,800	26,300	8,600	1,800
White	183,200	31,900	37,500	29,800	27,200	24,100	23,100	7,900	1,700
Black	9,800	2,100	2,100	1,800	1,000	1,500	1,000	200	S
Hispanic	4,400	1,400	800	600	400	700	400	100	S
Asian	46,700	16,100	12,300	8,400	5,400	2,600	1,600	300	100
Other	500	S	100	200	100	S	100	S	S
Life/related sciences, total ...	156,600	25,600	24,400	22,500	25,100	27,900	17,400	9,600	4,100
White	130,600	21,100	20,100	18,200	21,600	23,100	14,900	8,300	3,300
Black	7,600	900	1,100	1,400	1,300	1,500	700	500	200
Hispanic	3,700	700	900	500	700	700	100	100	S
Asian	13,900	2,700	2,200	2,200	1,400	2,400	1,700	600	600
Other	700	200	200	100	S	100	100	S	S
Physical/related sciences, total	114,500	18,800	17,400	17,800	14,100	18,100	14,800	8,000	5,400
White	96,100	14,600	14,000	14,900	11,900	15,200	13,300	7,200	5,000
Black	3,200	400	400	300	500	1,100	100	200	100
Hispanic	2,400	600	500	900	200	100	100	100	S
Asian	12,400	3,000	2,400	1,800	1,500	1,800	1,200	600	200
Other	400	100	200	S	100	S	100	S	S
Social/related sciences, total	485,300	95,500	62,400	83,500	88,900	77,900	48,600	16,000	12,500
White	412,900	78,400	52,100	72,500	76,300	65,500	42,800	13,900	11,300
Black	34,900	7,200	4,600	5,500	6,600	6,900	3,400	600	100
Hispanic	17,600	5,000	2,600	2,800	3,000	2,800	800	200	300
Asian	18,300	4,100	3,000	2,600	2,600	2,400	1,600	1,200	700
Other	1,600	700	200	100	400	200	100	100	S
Engineering, total	430,600	90,700	81,300	66,900	55,400	53,200	42,100	25,000	16,000
White	321,500	58,500	56,300	50,600	44,200	42,700	34,200	21,800	13,200
Black	8,000	3,000	1,900	1,000	600	1,100	100	100	200
Hispanic	15,500	4,300	3,200	2,600	1,900	1,300	1,100	400	600
Asian	84,600	24,600	19,700	12,400	8,600	8,000	6,600	2,700	1,900
Other	1,000	300	100	200	100	S	100	S	200
Non-S&E degree fields, total	1,388,200	261,700	263,100	242,900	232,900	207,100	111,000	43,600	25,800
White	1,186,100	211,300	226,600	208,900	195,500	181,400	98,400	40,500	23,400
Black	87,800	19,700	17,300	13,500	14,600	13,400	6,500	1,300	1,400
Hispanic	44,500	13,400	7,500	9,500	7,300	4,500	2,000	S	300
Asian	66,100	16,500	10,900	10,300	14,900	7,200	4,000	1,700	500
Other	3,700	700	700	700	600	600	S	100	200
Doctorate									
All degree fields, total	696,000	127,900	116,300	108,600	99,400	93,400	85,300	39,500	25,600
White	562,200	92,400	87,300	88,200	81,200	79,100	75,400	35,300	23,200
Black	21,300	4,100	4,700	4,500	4,800	2,200	900	200	100
Hispanic	19,100	4,000	4,300	2,700	2,600	2,700	1,600	900	300
Asian	91,100	27,000	19,800	13,000	10,500	9,000	7,100	3,000	1,900
Other	2,200	500	400	200	300	400	200	100	S

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

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Level and field of highest degree, and race/ethnicity	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
Doctorate — continued									
S&E degree fields, total	580,300	104,900	94,500	88,800	83,000	77,800	73,500	34,800	23,000
White	467,400	73,700	70,900	72,500	68,800	65,600	64,100	30,900	20,800
Black	12,800	3,100	2,500	2,300	1,900	1,700	900	200	100
Hispanic	15,000	2,800	3,500	2,400	2,300	1,600	1,500	600	300
Asian	83,100	24,900	17,300	11,300	9,800	8,500	6,700	3,000	1,600
Other	1,900	400	300	200	300	400	200	100	S
Sciences, total	482,000	83,500	75,800	76,700	72,700	66,300	59,400	28,100	19,700
White	400,400	62,100	59,500	64,600	61,700	57,300	52,300	24,900	17,900
Black	11,400	2,700	2,200	2,100	1,800	1,600	800	200	100
Hispanic	12,900	2,300	2,900	2,200	2,100	1,100	1,400	600	300
Asian	55,500	16,000	11,000	7,500	6,800	6,000	4,500	2,300	1,300
Other	1,800	400	200	200	300	300	200	100	S
Computer/math sciences, total	36,900	7,600	6,300	5,000	4,600	4,600	5,100	2,600	1,100
White	28,200	4,800	4,200	3,600	4,000	3,800	4,600	2,400	900
Black	500	100	100	100	100	100	100	S	S
Hispanic	800	200	200	100	100	100	S	100	S
Asian	7,300	2,500	1,900	1,200	400	500	400	200	200
Other	S	S	S	S	S	S	S	S	S
Life/related sciences, total	162,500	28,600	27,500	27,100	25,500	21,200	17,900	8,500	6,200
White	131,600	20,700	21,700	22,500	20,900	17,900	15,400	7,100	5,400
Black	3,700	1,000	600	800	400	500	300	100	S
Hispanic	5,300	700	1,200	800	1,200	300	700	200	300
Asian	21,400	6,100	3,900	2,900	3,100	2,400	1,500	1,000	500
Other	500	100	100	100	S	100	S	100	S
Physical/related sciences, total	122,200	17,800	17,600	17,300	16,500	16,400	18,700	10,100	7,700
White	98,900	12,400	12,800	14,300	13,600	13,400	16,200	9,100	7,200
Black	1,600	400	300	300	200	200	200	S	S
Hispanic	2,400	400	600	400	200	300	300	200	S
Asian	19,000	4,600	3,900	2,400	2,500	2,400	1,900	900	400
Other	400	100	S	S	S	100	200	S	S
Social/related sciences, total	160,500	29,500	24,300	27,300	26,000	24,100	17,700	6,900	4,600
White	141,700	24,200	20,800	24,300	23,300	22,200	16,100	6,400	4,400
Black	5,600	1,300	1,100	900	1,100	700	300	100	S
Hispanic	4,400	1,100	1,000	800	500	400	400	100	S
Asian	7,800	2,800	1,400	1,100	800	600	700	300	100
Other	900	200	100	100	200	200	S	100	S
Engineering, total	98,200	21,400	18,700	12,200	10,400	11,500	14,100	6,700	3,300
White	66,900	11,600	11,400	7,900	7,000	8,300	11,800	6,000	2,900
Black	1,400	500	400	200	200	100	100	S	S
Hispanic	2,200	500	600	200	200	600	100	S	S
Asian	27,600	8,800	6,300	3,800	3,000	2,500	2,200	700	400
Other	100	S	100	S	S	S	S	S	S

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

Table C-11. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and years since degree: 1997

Level and field of highest degree, and race/ethnicity	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
Doctorate — continued									
Non-S&E degree fields, total	115,800	23,100	21,800	19,700	16,400	15,600	11,800	4,700	2,600
White	94,900	18,800	16,400	15,700	12,500	13,500	11,300	4,400	2,400
Black	8,500	900	2,100	2,100	2,800	500	S	S	S
Hispanic	4,100	1,200	700	300	400	1,100	100	300	S
Asian	8,000	2,100	2,500	1,700	700	500	400	S	200
Other	300	100	100	S	100	S	S	S	S

¹ Includes professional degrees

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)