

**Table C-11. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and years since degree: 1999**

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
<b>All degree levels<sup>1</sup></b>									
<b>All degree fields, total</b> .....	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
White .....	9,124,600	1,510,000	1,384,700	1,358,400	1,403,800	1,331,600	1,091,400	554,300	490,400
Black .....	597,100	133,400	93,500	92,000	88,100	88,500	63,300	20,300	18,000
Hispanic .....	417,200	124,400	80,000	64,000	54,400	47,600	24,300	12,600	9,900
Asian/Pacific Islander .....	805,900	204,700	149,300	111,800	105,300	88,900	68,400	48,700	28,700
Other .....	36,800	10,500	6,400	4,800	4,800	4,700	3,200	1,300	1,300
<b>S&amp;E degree fields, total</b> .....	7,980,100	1,534,000	1,288,700	1,109,600	1,124,800	1,061,600	937,700	491,100	432,600
White .....	6,550,400	1,150,400	1,023,500	914,300	940,900	897,100	812,800	423,200	388,200
Black .....	418,600	98,100	69,400	56,600	61,600	62,500	45,000	13,400	11,800
Hispanic .....	320,800	99,000	63,600	47,500	41,100	32,100	18,900	11,000	7,700
Asian/Pacific Islander .....	660,900	177,000	126,800	88,200	77,900	66,400	58,200	42,400	24,000
Other .....	29,400	9,400	5,400	3,000	3,400	3,500	2,800	1,100	900
<b>Sciences, total</b> .....	6,043,700	1,222,700	988,800	806,000	820,300	834,000	730,500	360,100	281,500
White .....	5,003,200	935,000	798,000	671,300	690,400	707,700	635,000	314,100	251,700
Black .....	365,300	83,300	59,700	48,400	52,700	56,200	41,800	12,400	10,800
Hispanic .....	244,600	80,800	50,400	32,000	28,900	25,600	13,900	8,400	4,400
Asian/Pacific Islander .....	406,000	115,500	76,200	51,800	45,800	41,300	37,200	24,300	13,900
Other .....	24,600	8,000	4,500	2,400	2,500	3,100	2,400	1,000	600
<b>Computer/math sciences, total</b> .....	1,045,800	180,200	187,300	219,800	154,900	105,900	106,500	58,600	32,600
White .....	825,100	119,700	139,100	175,400	124,800	90,700	91,300	52,900	31,200
Black .....	60,000	13,400	13,300	11,800	7,900	5,200	6,500	900	1,000
Hispanic .....	34,500	9,300	8,200	8,200	4,600	2,300	800	900	200
Asian/Pacific Islander .....	121,900	36,600	25,900	23,700	17,000	7,200	7,700	3,600	200
Other .....	4,300	1,200	800	700	500	400	300	300	100
<b>Life/related sciences, total</b> .....	1,287,700	272,400	184,000	151,500	180,300	207,900	154,100	80,000	57,700
White .....	1,076,100	215,900	147,300	128,300	152,200	180,200	134,700	69,100	48,300
Black .....	61,000	12,700	8,300	8,100	9,900	10,200	6,400	2,700	2,700
Hispanic .....	49,400	14,900	9,800	5,800	6,000	5,700	4,100	1,700	1,500
Asian/Pacific Islander .....	96,100	27,300	17,400	8,900	11,600	10,900	8,800	6,200	5,000
Other .....	5,200	1,600	1,100	400	600	1,000	200	200	200
<b>Physical/related sciences, total</b> .....	621,700	93,300	85,300	81,600	88,500	86,500	78,000	51,800	56,700
White .....	521,800	74,400	67,500	68,800	74,900	74,900	67,400	44,000	49,700
Black .....	21,500	3,200	3,800	3,300	3,200	2,500	2,200	1,400	2,000
Hispanic .....	18,400	3,400	3,200	2,800	4,400	1,100	1,800	700	1,000
Asian/Pacific Islander .....	57,400	11,600	10,600	6,300	5,800	7,700	5,900	5,600	4,000
Other .....	2,600	600	200	400	200	400	700	S	100
<b>Social/related sciences, total</b> .....	3,088,400	676,800	532,200	353,000	396,600	433,600	391,900	169,700	134,500
White .....	2,580,300	525,000	444,000	298,700	338,400	362,000	341,600	148,000	122,500
Black .....	222,900	54,000	34,300	25,100	31,700	38,400	26,700	7,400	5,100
Hispanic .....	142,200	53,200	29,200	15,200	13,900	16,600	7,300	5,000	1,800
Asian/Pacific Islander .....	130,600	40,000	22,300	13,000	11,300	15,400	14,900	8,800	4,800
Other .....	12,400	4,600	2,400	1,000	1,200	1,300	1,300	500	200

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: 1999**

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
<b>All degree levels<sup>1</sup> — continued</b>									
<b>Engineering, total</b> .....	1,936,400	311,300	299,900	303,600	304,500	227,600	207,300	131,000	151,100
White .....	1,547,200	215,400	225,500	243,000	250,500	189,400	177,800	109,100	136,500
Black .....	53,200	14,800	9,800	8,200	8,900	6,300	3,200	1,000	1,000
Hispanic .....	76,200	18,200	13,200	15,500	12,100	6,400	5,000	2,600	3,300
Asian/Pacific Islander .....	254,900	61,500	50,500	36,500	32,100	25,100	21,000	18,200	10,000
Other .....	4,900	1,400	900	500	900	400	300	100	400
<b>Non-S&amp;E degree fields, total</b> ....	3,001,500	449,100	425,100	521,400	531,500	499,600	312,900	146,200	115,700
White .....	2,574,200	359,600	361,200	444,100	462,900	434,400	278,600	131,200	102,200
Black .....	178,600	35,300	24,000	35,400	26,500	25,900	18,300	6,900	6,200
Hispanic .....	96,400	25,400	16,400	16,500	13,300	15,500	5,400	1,700	2,200
Asian/Pacific Islander .....	145,000	27,700	22,500	23,600	27,400	22,500	10,200	6,300	4,800
Other .....	7,400	1,100	900	1,800	1,400	1,200	400	200	300
<b>Bachelor's</b>									
<b>All degree fields, total</b> .....	6,350,100	1,153,700	982,700	892,200	925,600	872,300	750,000	383,200	390,400
White .....	5,300,500	890,300	804,100	750,000	780,800	744,000	652,300	328,100	350,900
Black .....	362,000	80,900	56,600	50,700	55,800	53,500	40,100	12,600	11,800
Hispanic .....	268,800	82,100	52,600	39,400	35,300	27,700	15,900	8,800	7,100
Asian/Pacific Islander .....	394,800	93,400	65,500	49,200	50,800	44,000	39,300	32,800	20,000
Other .....	23,900	7,100	4,000	2,900	2,900	2,900	2,400	900	700
<b>S&amp;E degree fields, total</b> .....	5,866,100	1,127,300	958,300	779,200	817,200	778,000	687,000	355,200	364,000
White .....	4,880,800	866,800	783,500	651,400	685,400	662,400	598,200	305,200	327,900
Black .....	336,400	79,300	55,800	44,400	49,500	49,100	36,600	10,500	11,100
Hispanic .....	255,600	81,100	51,400	36,300	32,800	24,700	14,500	8,400	6,500
Asian/Pacific Islander .....	371,100	93,000	63,800	45,100	46,900	39,000	35,200	30,200	17,900
Other .....	22,200	7,000	3,900	2,000	2,600	2,800	2,300	900	700
<b>Sciences, total</b> .....	4,486,100	932,300	760,300	561,900	580,600	614,500	541,300	261,300	233,900
White .....	3,734,200	721,900	624,300	471,800	486,900	522,800	470,200	227,200	209,100
Black .....	293,700	68,200	48,400	37,600	41,800	44,200	33,600	9,700	10,200
Hispanic .....	198,100	68,200	41,700	24,500	22,400	20,400	10,800	6,500	3,600
Asian/Pacific Islander .....	241,700	68,100	42,600	26,400	27,700	24,700	24,500	17,200	10,600
Other .....	18,400	5,900	3,300	1,700	1,700	2,400	2,100	800	400
<b>Computer/math sciences, total</b> .....	742,700	118,500	132,600	163,900	113,200	73,300	72,400	41,100	27,700
White .....	602,500	84,800	102,500	133,800	93,400	63,000	60,900	37,600	26,500
Black .....	48,700	11,000	10,800	10,200	6,300	3,900	5,300	200	1,000
Hispanic .....	28,600	7,700	7,300	7,000	3,700	1,700	400	800	200
Asian/Pacific Islander .....	59,900	14,600	11,300	12,600	9,300	4,400	5,500	2,200	S
Other .....	3,100	500	700	500	500	400	200	200	100
<b>Life/related sciences, total</b> ...	947,000	210,500	132,200	100,000	128,700	159,500	113,100	57,800	45,300
White .....	799,900	169,600	107,400	85,800	108,600	140,300	99,800	50,100	38,300
Black .....	48,800	10,400	6,500	6,200	7,800	8,700	4,700	2,000	2,500
Hispanic .....	39,400	12,900	7,400	4,100	4,900	4,500	3,400	1,100	1,000
Asian/Pacific Islander .....	55,000	16,300	10,000	3,700	7,100	5,200	5,000	4,400	3,300
Other .....	3,800	1,300	800	100	300	700	200	100	200

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: 1999**

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
<b>Bachelor's — continued</b>									
<b>Physical/related sciences, total</b>	380,900	58,500	50,800	46,600	56,500	55,700	45,300	25,400	42,200
White	325,800	49,000	42,500	40,600	48,000	49,500	39,400	20,600	36,400
Black	16,900	2,500	2,900	2,800	2,700	1,700	1,500	1,000	1,800
Hispanic	12,700	2,400	2,100	1,800	3,000	800	1,200	400	900
Asian/Pacific Islander	23,700	4,200	3,200	1,200	2,700	3,400	2,500	3,400	3,000
Other	1,800	400	S	300	100	300	600	S	100
<b>Social/related sciences, total</b>	2,415,500	544,800	444,700	251,300	282,200	326,000	310,500	137,200	118,800
White	2,006,000	418,500	371,900	211,600	237,000	270,000	270,000	118,900	108,000
Black	179,400	44,300	28,200	18,400	25,000	29,900	22,000	6,400	5,000
Hispanic	117,400	45,300	24,700	11,600	10,800	13,400	5,800	4,200	1,400
Asian/Pacific Islander	103,100	32,900	18,000	8,900	8,600	11,700	11,500	7,200	4,300
Other	9,700	3,800	1,800	700	900	900	1,100	400	100
<b>Engineering, total</b>	1,380,000	195,000	198,100	217,300	236,600	163,500	145,700	93,800	130,000
White	1,146,600	144,900	159,200	179,600	198,500	139,600	128,000	78,000	118,800
Black	42,700	11,100	7,400	6,800	7,700	5,000	3,000	900	800
Hispanic	57,500	12,900	9,700	11,700	10,400	4,300	3,700	1,900	2,900
Asian/Pacific Islander	129,400	25,000	21,200	18,700	19,200	14,300	10,700	13,000	7,300
Other	3,800	1,100	600	400	800	400	300	100	200
<b>Non-S&amp;E degree fields, total</b>	484,000	26,400	24,300	113,000	108,400	94,300	63,000	28,000	26,400
White	419,700	23,400	20,600	98,700	95,400	81,700	54,100	22,900	23,000
Black	25,600	1,500	800	6,300	6,300	4,400	3,500	2,100	700
Hispanic	13,200	1,000	1,200	3,100	2,500	3,000	1,400	400	600
Asian/Pacific Islander	23,800	400	1,700	4,100	3,900	5,000	4,100	2,600	2,100
Other	1,700	100	100	900	300	200	100	100	S
<b>Master's</b>									
<b>All degree fields, total</b>	2,982,000	589,100	486,600	479,800	462,400	424,200	317,100	149,600	73,100
White	2,440,500	444,600	388,100	393,800	387,400	356,200	275,400	131,600	63,400
Black	168,600	37,700	28,400	28,200	23,300	26,000	16,400	5,800	2,800
Hispanic	98,000	30,300	16,600	15,900	13,800	13,000	5,700	1,900	900
Asian/Pacific Islander	266,600	74,200	51,900	40,800	36,600	28,000	19,300	10,300	5,500
Other	8,200	2,300	1,500	1,100	1,300	1,100	400	100	400
<b>S&amp;E degree fields, total</b>	1,491,200	295,700	225,900	239,100	221,800	201,500	174,300	91,000	41,900
White	1,176,200	207,000	165,400	190,800	183,800	165,600	148,400	78,800	36,500
Black	67,700	15,200	10,700	9,500	10,500	11,500	7,200	2,600	600
Hispanic	47,900	14,100	8,500	8,300	6,200	5,800	2,800	1,500	700
Asian/Pacific Islander	194,500	57,700	40,100	29,900	20,900	18,100	15,700	8,100	4,000
Other	4,900	1,700	1,100	700	500	400	200	100	200
<b>Sciences, total</b>	1,040,400	203,100	144,200	167,300	164,100	148,400	126,100	62,600	24,700
White	844,700	149,300	110,800	136,500	138,400	123,500	108,700	55,300	22,300
Black	59,000	12,100	8,800	8,300	9,400	10,400	7,100	2,400	500
Hispanic	32,100	9,800	5,500	5,000	4,600	4,000	2,100	800	300
Asian/Pacific Islander	100,600	30,600	18,300	16,900	11,100	10,100	8,000	4,000	1,600
Other	4,000	1,400	800	500	500	400	200	100	100

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**Table C-11. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and years since degree: 1999**

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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
<b>Master's — continued</b>									
<b>Computer/math sciences, total</b> .....	262,600	52,700	47,400	50,400	37,000	28,200	28,900	14,500	3,500
White .....	191,600	28,800	32,000	37,400	27,500	24,100	25,700	12,600	3,500
Black .....	10,700	2,300	2,500	1,500	1,500	1,200	1,100	600	S
Hispanic .....	4,900	1,500	600	1,100	800	500	300	100	S
Asian/Pacific Islander .....	54,400	19,700	12,200	10,000	7,200	2,300	1,700	1,200	S
Other .....	1,000	500	100	300	100	S	100	100	S
<b>Life/related sciences, total</b> ...	164,100	29,200	21,800	24,400	25,300	25,100	21,100	11,700	5,400
White .....	136,500	23,500	17,800	20,700	21,700	20,500	17,500	10,400	4,400
Black .....	7,700	1,200	1,000	800	1,800	1,000	1,100	600	200
Hispanic .....	4,200	1,000	1,100	600	300	800	300	100	S
Asian/Pacific Islander .....	15,000	3,400	1,700	2,100	1,400	2,700	2,200	700	800
Other .....	800	200	100	100	200	100	S	S	S
<b>Physical/related sciences, total</b> .....	113,900	17,200	15,400	17,300	15,200	14,600	15,500	12,500	6,200
White .....	94,900	13,400	11,800	14,500	12,900	12,100	13,300	11,100	5,700
Black .....	3,100	400	400	300	300	600	500	400	200
Hispanic .....	3,200	700	600	500	1,200	S	200	100	S
Asian/Pacific Islander .....	12,200	2,600	2,400	1,900	800	1,900	1,500	900	400
Other .....	500	100	200	100	100	S	100	S	S
<b>Social/related sciences, total</b> .....	499,800	104,000	59,700	75,200	86,600	80,400	60,500	23,900	9,500
White .....	421,700	83,500	49,100	63,900	76,300	66,700	52,200	21,200	8,700
Black .....	37,500	8,300	4,900	5,600	5,800	7,600	4,400	900	100
Hispanic .....	19,700	6,700	3,200	2,700	2,400	2,700	1,200	500	300
Asian/Pacific Islander .....	19,000	4,900	2,100	2,900	1,800	3,100	2,600	1,300	400
Other .....	1,800	700	400	100	300	300	100	S	100
<b>Engineering, total</b> .....	450,800	92,500	81,700	71,800	57,700	53,100	48,300	28,400	17,300
White .....	331,500	57,700	54,600	54,300	45,400	42,200	39,700	23,500	14,200
Black .....	8,700	3,100	1,900	1,200	1,000	1,100	100	100	100
Hispanic .....	15,900	4,300	3,000	3,300	1,600	1,800	800	600	400
Asian/Pacific Islander .....	93,900	27,100	21,800	13,000	9,800	8,000	7,700	4,100	2,300
Other .....	800	200	300	100	S	S	S	S	100
<b>Non-S&amp;E degree fields, total</b> ....	1,490,800	293,500	260,700	240,700	240,600	222,700	142,800	58,600	31,100
White .....	1,264,300	237,600	222,800	203,000	203,600	190,600	127,000	52,700	26,900
Black .....	100,900	22,500	17,700	18,700	12,900	14,500	9,300	3,200	2,200
Hispanic .....	50,100	16,200	8,100	7,500	7,600	7,100	2,800	400	200
Asian/Pacific Islander .....	72,200	16,600	11,800	10,900	15,800	9,900	3,500	2,100	1,600
Other .....	3,400	600	400	400	700	700	200	100	200
<b>Doctorate</b>									
<b>All degree fields, total</b> .....	736,700	128,200	127,100	110,600	101,600	97,900	89,800	51,600	29,900
White .....	583,300	89,200	91,800	85,200	84,400	81,400	78,700	45,900	26,700
Black .....	25,800	5,600	4,100	6,800	4,100	2,900	1,800	300	100
Hispanic .....	21,200	4,700	5,100	3,200	2,100	2,800	1,600	1,100	600
Asian/Pacific Islander .....	103,800	27,800	25,700	15,100	10,700	10,400	7,500	4,100	2,400
Other .....	2,600	800	400	200	400	300	200	100	100

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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
<b>Doctorate — continued</b>									
<b>S&amp;E degree fields, total</b> .....	614,600	109,200	102,400	89,300	85,200	80,300	76,500	44,900	26,700
White .....	485,400	74,900	72,700	70,200	71,100	67,300	66,200	39,200	23,900
Black .....	14,400	3,600	2,900	2,700	1,600	1,900	1,200	300	100
Hispanic .....	17,100	3,800	3,600	2,900	2,000	1,500	1,600	1,100	600
Asian/Pacific Islander .....	95,300	26,200	22,900	13,300	10,100	9,300	7,300	4,100	2,100
Other .....	2,300	700	300	200	300	300	200	100	100
<b>Sciences, total</b> .....	509,000	85,500	82,300	74,800	75,000	69,300	63,100	36,200	22,900
White .....	416,300	62,100	61,000	61,100	64,400	59,600	56,100	31,500	20,400
Black .....	12,700	3,000	2,400	2,500	1,500	1,600	1,100	300	100
Hispanic .....	14,300	2,900	3,200	2,500	1,900	1,200	1,000	1,100	600
Asian/Pacific Islander .....	63,600	16,800	15,300	8,500	7,000	6,500	4,700	3,100	1,700
Other .....	2,100	700	300	200	200	300	200	100	100
<b>Computer/math sciences, total</b> .....	40,600	9,000	7,300	5,500	4,700	4,400	5,200	3,100	1,400
White .....	31,000	6,100	4,500	4,200	3,900	3,600	4,700	2,700	1,200
Black .....	600	200	100	100	100	100	100	S	S
Hispanic .....	1,000	200	300	100	100	100	100	S	S
Asian/Pacific Islander .....	7,700	2,300	2,500	1,100	500	500	400	300	200
Other .....	300	300	S	S	S	S	S	S	S
<b>Life/related sciences, total</b> .....	176,200	32,600	29,600	27,000	26,300	23,300	19,900	10,500	7,000
White .....	139,200	22,800	21,700	21,800	21,900	19,400	17,400	8,600	5,600
Black .....	4,500	1,100	800	1,100	300	500	500	100	100
Hispanic .....	5,800	1,100	1,200	1,000	800	400	300	600	400
Asian/Pacific Islander .....	26,000	7,400	5,700	3,000	3,200	3,000	1,600	1,200	900
Other .....	600	200	100	100	100	100	S	S	S
<b>Physical/related sciences, total</b> .....	125,900	17,100	18,600	17,700	16,900	16,200	17,100	14,000	8,300
White .....	100,000	11,500	12,700	13,700	14,100	13,300	14,700	12,400	7,700
Black .....	1,600	300	400	200	200	200	200	100	S
Hispanic .....	2,500	300	500	400	200	300	400	300	S
Asian/Pacific Islander .....	21,500	4,900	5,000	3,200	2,400	2,400	1,900	1,300	500
Other .....	300	S	S	S	S	100	100	S	S
<b>Social/related sciences, total</b> .....	166,400	26,800	26,700	24,600	27,200	25,400	20,900	8,700	6,200
White .....	146,000	21,700	22,100	21,300	24,500	23,300	19,400	7,900	5,900
Black .....	6,000	1,400	1,200	1,000	900	900	300	100	S
Hispanic .....	5,000	1,200	1,200	900	700	400	200	200	100
Asian/Pacific Islander .....	8,500	2,300	2,200	1,200	1,000	500	800	400	100
Other .....	800	200	100	100	100	100	100	S	S
<b>Engineering, total</b> .....	105,600	23,800	20,200	14,600	10,200	11,000	13,300	8,700	3,900
White .....	69,100	12,800	11,700	9,100	6,700	7,700	10,000	7,600	3,500
Black .....	1,800	600	400	200	200	200	100	S	S
Hispanic .....	2,800	900	400	400	200	300	500	S	S
Asian/Pacific Islander .....	31,700	9,400	7,500	4,800	3,100	2,800	2,600	1,000	400
Other .....	200	100	S	S	S	S	100	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: 1999**

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
<b>Doctorate — continued</b>									
<b>Non-S&amp;E degree fields, total</b> ....	122,100	18,900	24,600	21,200	16,400	17,700	13,300	6,700	3,200
White .....	97,900	14,300	19,000	15,100	13,300	14,200	12,500	6,700	2,900
Black .....	11,400	2,100	1,200	4,100	2,400	1,000	600	S	S
Hispanic .....	4,100	900	1,500	300	100	1,300	S	S	S
Asian/Pacific Islander .....	8,500	1,600	2,800	1,800	500	1,200	200	S	300
Other .....	300	100	100	S	100	S	S	S	S

<sup>1</sup> 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)