

**Table C-4. Employed U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and employment sector: 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>All degree levels<sup>1</sup></b>					
<b>All degree fields, total</b> .....	10,981,600	7,556,000	961,500	1,060,900	1,403,300
White .....	9,124,600	6,393,300	761,100	879,500	1,090,700
Black .....	597,100	308,300	53,900	93,800	141,100
Hispanic .....	417,200	251,100	42,000	53,800	70,200
Asian/Pacific Islander .....	805,900	582,400	100,500	30,000	92,900
Other .....	36,800	20,900	3,900	3,700	8,300
<b>S&amp;E degree fields, total</b> .....	7,980,100	5,545,400	701,700	677,400	1,055,600
White .....	6,550,400	4,620,000	553,100	561,800	815,500
Black .....	418,600	223,300	34,700	56,200	104,400
Hispanic .....	320,800	198,900	33,400	34,800	53,700
Asian/Pacific Islander .....	660,900	485,900	77,700	22,000	75,400
Other .....	29,400	17,300	2,900	2,600	6,600
<b>Sciences, total</b> .....	6,043,700	3,945,200	621,000	658,200	819,400
White .....	5,003,200	3,323,100	494,600	546,300	639,200
Black .....	365,300	185,500	32,000	54,700	93,100
Hispanic .....	244,600	139,400	30,200	33,800	41,200
Asian/Pacific Islander .....	406,000	283,800	61,500	20,700	40,000
Other .....	24,600	13,400	2,700	2,600	5,800
<b>Computer/math sciences, total</b> .....	1,045,800	804,100	66,600	97,500	77,600
White .....	825,100	634,100	52,000	82,100	56,900
Black .....	60,000	38,600	2,600	8,800	9,900
Hispanic .....	34,500	24,600	3,200	2,700	4,000
Asian/Pacific Islander .....	121,900	103,500	8,300	3,800	6,400
Other .....	4,300	3,300	500	100	500
<b>Life/related sciences, total</b> .....	1,287,700	768,700	219,700	125,500	173,800
White .....	1,076,100	656,200	171,600	106,500	141,800
Black .....	61,000	33,100	9,500	7,800	10,500
Hispanic .....	49,400	25,300	9,200	5,900	9,100
Asian/Pacific Islander .....	96,100	52,100	28,700	4,600	10,700
Other .....	5,200	2,100	700	600	1,700
<b>Physical/related sciences, total</b> .....	621,700	414,500	90,700	40,200	76,300
White .....	521,800	349,900	75,500	33,700	62,600
Black .....	21,500	12,300	2,000	2,300	4,900
Hispanic .....	18,400	11,300	3,000	1,400	2,700
Asian/Pacific Islander .....	57,400	39,300	9,900	2,600	5,600
Other .....	2,600	1,700	300	200	400
<b>Social/related sciences, total</b> .....	3,088,400	1,957,800	243,900	394,900	491,700
White .....	2,580,300	1,682,900	195,400	324,000	377,900
Black .....	222,900	101,400	17,900	35,700	67,900
Hispanic .....	142,200	78,200	14,800	23,800	25,400
Asian/Pacific Islander .....	130,600	88,800	14,600	9,700	17,400
Other .....	12,400	6,400	1,200	1,700	3,200

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

**Table C-4. Employed U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and employment sector: 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>All degree levels<sup>1</sup> — continued</b>					
<b>Engineering, total</b> .....	1,936,400	1,600,300	80,800	19,200	236,200
White .....	1,547,200	1,296,800	58,500	15,500	176,300
Black .....	53,200	37,800	2,800	1,400	11,200
Hispanic .....	76,200	59,600	3,200	1,000	12,500
Asian/Pacific Islander .....	254,900	202,200	16,200	1,300	35,300
Other .....	4,900	3,900	100	S	800
<b>Non-S&amp;E degree fields, total</b> .....	3,001,500	2,010,500	259,800	383,500	347,700
White .....	2,574,200	1,773,300	208,000	317,700	275,200
Black .....	178,600	85,000	19,200	37,600	36,700
Hispanic .....	96,400	52,200	8,700	19,000	16,500
Asian/Pacific Islander .....	145,000	96,500	22,900	8,100	17,500
Other .....	7,400	3,500	1,000	1,100	1,700
<b>Bachelor's</b>					
<b>All degree fields, total</b> .....	6,350,100	4,694,100	327,100	479,700	849,300
White .....	5,300,500	4,010,700	251,900	389,900	648,000
Black .....	362,000	205,600	20,800	41,800	93,700
Hispanic .....	268,800	172,500	20,300	29,000	47,000
Asian/Pacific Islander .....	394,800	290,200	32,400	17,400	54,900
Other .....	23,900	15,000	1,700	1,600	5,600
<b>S&amp;E degree fields, total</b> .....	5,866,100	4,312,700	305,400	457,300	790,700
White .....	4,880,800	3,672,700	234,800	372,700	600,500
Black .....	336,400	189,400	19,400	39,400	88,200
Hispanic .....	255,600	163,800	19,400	27,300	45,200
Asian/Pacific Islander .....	371,100	272,500	30,700	16,300	51,600
Other .....	22,200	14,200	1,100	1,600	5,300
<b>Sciences, total</b> .....	4,486,100	3,148,800	275,500	442,400	619,400
White .....	3,734,200	2,686,900	213,000	360,500	473,800
Black .....	293,700	158,400	18,200	38,200	78,900
Hispanic .....	198,100	117,800	18,000	26,900	35,500
Asian/Pacific Islander .....	241,700	174,600	25,300	15,300	26,600
Other .....	18,400	11,100	1,000	1,600	4,600
<b>Computer/math sciences, total</b> .....	742,700	595,500	23,700	65,400	58,000
White .....	602,500	488,800	18,000	54,600	41,100
Black .....	48,700	33,100	1,000	5,800	8,800
Hispanic .....	28,600	20,900	1,900	2,200	3,700
Asian/Pacific Islander .....	59,900	50,300	2,700	2,700	4,200
Other .....	3,100	2,500	100	100	300
<b>Life/related sciences, total</b> .....	947,000	631,000	101,700	88,200	126,100
White .....	799,900	546,100	77,500	74,400	102,000
Black .....	48,800	28,800	5,800	5,900	8,200
Hispanic .....	39,400	21,400	5,300	4,700	8,000
Asian/Pacific Islander .....	55,000	32,900	12,600	3,000	6,500
Other .....	3,800	1,700	500	300	1,400

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

**Table C-4. Employed U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and employment sector: 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>Bachelor's — continued</b>					
<b>Physical/related sciences, total</b> .....	380,900	278,700	32,700	22,900	46,600
White .....	325,800	242,100	27,900	18,500	37,200
Black .....	16,900	10,400	1,000	1,300	4,100
Hispanic .....	12,700	7,900	1,500	1,100	2,200
Asian/Pacific Islander .....	23,700	16,900	2,200	1,800	2,800
Other .....	1,800	1,300	S	100	300
<b>Social/related sciences, total</b> .....	2,415,500	1,643,600	117,400	265,900	388,600
White .....	2,006,000	1,410,000	89,600	212,900	293,600
Black .....	179,400	86,100	10,300	25,200	57,800
Hispanic .....	117,400	67,600	9,200	18,900	21,600
Asian/Pacific Islander .....	103,100	74,400	7,800	7,800	13,100
Other .....	9,700	5,500	500	1,100	2,600
<b>Engineering, total</b> .....	1,380,000	1,163,900	29,900	14,900	171,300
White .....	1,146,600	985,800	21,800	12,200	126,700
Black .....	42,700	31,000	1,200	1,200	9,300
Hispanic .....	57,500	46,000	1,400	400	9,700
Asian/Pacific Islander .....	129,400	98,000	5,400	1,000	25,000
Other .....	3,800	3,100	S	S	700
<b>Non-S&amp;E degree fields, total</b> .....	484,000	381,400	21,600	22,400	58,600
White .....	419,700	338,000	17,100	17,200	47,500
Black .....	25,600	16,200	1,400	2,400	5,600
Hispanic .....	13,200	8,700	900	1,700	1,900
Asian/Pacific Islander .....	23,800	17,600	1,700	1,100	3,300
Other .....	1,700	800	600	S	300
<b>Master's</b>					
<b>All degree fields, total</b> .....	2,982,000	1,851,000	226,000	518,000	387,000
White .....	2,440,500	1,516,500	180,000	437,400	306,600
Black .....	168,600	71,200	15,300	46,100	36,000
Hispanic .....	98,000	51,300	8,200	22,600	15,900
Asian/Pacific Islander .....	266,600	208,100	21,900	10,000	26,600
Other .....	8,200	3,800	600	1,900	1,900
<b>S&amp;E degree fields, total</b> .....	1,491,200	954,600	133,900	195,700	207,000
White .....	1,176,200	737,900	103,600	168,000	166,800
Black .....	67,700	29,600	7,800	15,800	14,500
Hispanic .....	47,900	28,000	5,700	6,900	7,300
Asian/Pacific Islander .....	194,500	156,600	16,400	4,100	17,400
Other .....	4,900	2,400	500	900	1,000
<b>Sciences, total</b> .....	1,040,400	585,600	111,900	192,600	150,200
White .....	844,700	467,500	88,300	165,600	123,300
Black .....	59,000	23,600	7,200	15,600	12,700
Hispanic .....	32,100	16,100	4,900	6,400	4,600
Asian/Pacific Islander .....	100,600	76,700	11,100	4,000	8,700
Other .....	4,000	1,700	500	900	1,000

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

**Table C-4. Employed U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and employment sector: 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>Master's — continued</b>					
<b>Computer/math sciences, total</b> .....	262,600	192,700	21,400	31,200	17,200
White .....	191,600	134,100	16,900	26,700	13,800
Black .....	10,700	5,400	1,200	3,000	1,100
Hispanic .....	4,900	3,500	600	600	300
Asian/Pacific Islander .....	54,400	49,000	2,500	900	1,900
Other .....	1,000	700	200	S	100
<b>Life/related sciences, total</b> .....	164,100	75,400	27,500	31,100	30,200
White .....	136,500	62,600	21,200	26,800	25,900
Black .....	7,700	3,000	1,400	1,800	1,600
Hispanic .....	4,200	1,300	1,000	1,100	800
Asian/Pacific Islander .....	15,000	8,400	3,900	1,000	1,700
Other .....	800	100	S	400	300
<b>Physical/related sciences, total</b> .....	113,900	69,400	14,600	13,100	16,700
White .....	94,900	57,700	11,500	11,600	14,100
Black .....	3,100	1,200	300	900	700
Hispanic .....	3,200	2,300	500	200	300
Asian/Pacific Islander .....	12,200	8,000	2,300	500	1,500
Other .....	500	300	100	100	100
<b>Social/related sciences, total</b> .....	499,800	248,000	48,400	117,200	86,200
White .....	421,700	213,100	38,600	100,500	69,500
Black .....	37,500	13,900	4,300	10,000	9,300
Hispanic .....	19,700	9,000	2,800	4,600	3,300
Asian/Pacific Islander .....	19,000	11,300	2,500	1,600	3,600
Other .....	1,800	600	300	500	500
<b>Engineering, total</b> .....	450,800	369,000	21,900	3,100	56,700
White .....	331,500	270,400	15,300	2,300	43,500
Black .....	8,700	6,100	600	100	1,900
Hispanic .....	15,900	11,900	800	500	2,700
Asian/Pacific Islander .....	93,900	79,900	5,200	100	8,700
Other .....	800	800	S	S	100
<b>Non-S&amp;E degree fields, total</b> .....	1,490,800	896,400	92,100	322,300	180,000
White .....	1,264,300	778,600	76,400	269,400	139,800
Black .....	100,900	41,500	7,600	30,300	21,500
Hispanic .....	50,100	23,300	2,600	15,600	8,700
Asian/Pacific Islander .....	72,200	51,600	5,500	5,900	9,200
Other .....	3,400	1,400	100	1,000	900
<b>Doctorate</b>					
<b>All degree fields, total</b> .....	736,700	322,000	309,400	39,700	65,600
White .....	583,300	247,700	249,900	31,500	54,300
Black .....	25,800	6,300	12,400	4,800	2,300
Hispanic .....	21,200	8,200	9,500	1,500	2,000
Asian/Pacific Islander .....	103,800	59,200	36,100	1,800	6,700
Other .....	2,600	700	1,500	200	200

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

**Table C-4. Employed U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and employment sector: 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>Doctorate — continued</b>					
<b>S&amp;E degree fields, total</b> .....	614,600	274,700	261,200	21,800	56,800
White .....	485,400	206,000	213,600	18,700	47,200
Black .....	14,400	4,200	7,600	900	1,700
Hispanic .....	17,100	7,000	8,300	600	1,300
Asian/Pacific Islander .....	95,300	56,800	30,500	1,500	6,400
Other .....	2,300	700	1,300	100	200
<b>Sciences, total</b> .....	509,000	207,300	232,300	20,700	48,700
White .....	416,300	165,300	192,200	17,700	41,000
Black .....	12,700	3,500	6,600	900	1,600
Hispanic .....	14,300	5,400	7,400	500	1,100
Asian/Pacific Islander .....	63,600	32,500	25,000	1,400	4,700
Other .....	2,100	600	1,200	100	200
<b>Computer/math sciences, total</b> .....	40,600	15,800	21,500	900	2,300
White .....	31,000	11,200	17,100	700	2,100
Black .....	600	200	400	S	S
Hispanic .....	1,000	300	700	S	S
Asian/Pacific Islander .....	7,700	4,200	3,100	200	200
Other .....	300	S	300	S	S
<b>Life/related sciences, total</b> .....	176,200	62,400	90,500	6,100	17,200
White .....	139,200	47,500	72,900	5,200	13,500
Black .....	4,500	1,300	2,300	200	700
Hispanic .....	5,800	2,500	2,900	100	300
Asian/Pacific Islander .....	26,000	10,800	12,100	500	2,600
Other .....	600	300	300	S	100
<b>Physical/related sciences, total</b> .....	125,900	65,700	43,300	4,200	12,700
White .....	100,000	49,400	36,000	3,500	11,000
Black .....	1,600	700	600	100	100
Hispanic .....	2,500	1,000	1,000	100	300
Asian/Pacific Islander .....	21,500	14,400	5,400	400	1,300
Other .....	300	100	200	S	S
<b>Social/related sciences, total</b> .....	166,400	63,500	77,000	9,400	16,400
White .....	146,000	57,200	66,200	8,200	14,500
Black .....	6,000	1,400	3,300	500	700
Hispanic .....	5,000	1,500	2,800	300	500
Asian/Pacific Islander .....	8,500	3,100	4,300	400	700
Other .....	800	200	500	100	100
<b>Engineering, total</b> .....	105,600	67,400	28,900	1,100	8,100
White .....	69,100	40,600	21,400	1,000	6,100
Black .....	1,800	700	900	S	100
Hispanic .....	2,800	1,700	900	S	200
Asian/Pacific Islander .....	31,700	24,300	5,600	100	1,700
Other .....	200	100	100	S	S

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

**Table C-4. Employed U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and employment sector: 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/ industry	4-yr. College/ university	Other educational institution	Government
<b>Doctorate — continued</b>					
<b>Non-S&amp;E degree fields, total</b> .....	122,100	47,300	48,100	17,900	8,800
White .....	97,900	41,700	36,300	12,800	7,100
Black .....	11,400	2,000	4,800	3,900	600
Hispanic .....	4,100	1,200	1,300	900	700
Asian/Pacific Islander .....	8,500	2,400	5,500	200	300
Other .....	300	S	200	100	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)