

**Table C-7. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and primary/secondary work activity : 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>All degree levels<sup>1</sup></b>						
<b>All degree fields, total</b> .....	10,981,600	3,025,600	1,648,000	6,742,200	2,289,800	3,593,300
White .....	9,124,600	2,450,800	1,361,000	5,705,800	1,820,200	3,025,000
Black .....	597,100	129,500	123,000	358,400	122,400	207,500
Hispanic .....	417,200	111,700	72,300	241,900	83,900	148,400
Asian/Pacific Islander .....	805,900	323,200	85,100	414,500	255,800	199,700
Other .....	36,800	10,400	6,500	21,700	7,500	12,700
<b>S&amp;E degree fields, total</b> .....	7,980,100	2,483,800	1,096,300	4,863,700	1,855,000	2,131,200
White .....	6,550,400	1,996,300	901,600	4,077,500	1,451,200	1,761,900
Black .....	418,600	95,900	78,700	251,500	96,100	130,100
Hispanic .....	320,800	93,200	51,600	187,600	69,000	99,300
Asian/Pacific Islander .....	660,900	289,300	59,200	329,700	232,400	131,800
Other .....	29,400	9,200	5,200	17,400	6,400	8,100
<b>Sciences, total</b> .....	6,043,700	1,523,500	1,019,500	3,694,400	1,354,200	1,795,500
White .....	5,003,200	1,233,200	842,100	3,110,600	1,083,900	1,489,900
Black .....	365,300	72,500	75,400	219,700	81,700	121,500
Hispanic .....	244,600	59,800	47,600	139,200	47,500	85,100
Asian/Pacific Islander .....	406,000	151,500	49,300	210,000	136,300	92,100
Other .....	24,600	6,600	5,100	14,900	5,000	7,000
<b>Computer/math sciences, total</b> .....	1,045,800	332,100	136,000	547,100	588,600	119,500
White .....	825,100	251,000	112,100	442,100	455,000	95,200
Black .....	60,000	16,800	10,500	28,100	32,200	9,300
Hispanic .....	34,500	12,700	3,900	18,000	19,700	4,100
Asian/Pacific Islander .....	121,900	49,700	8,800	56,600	80,000	10,700
Other .....	4,300	1,900	800	2,300	1,800	200
<b>Life/related sciences, total</b> .....	1,287,700	411,500	241,700	752,400	167,100	421,800
White .....	1,076,100	334,400	201,600	644,800	135,600	355,500
Black .....	61,000	16,500	14,300	35,600	10,800	17,200
Hispanic .....	49,400	14,800	10,100	27,900	5,200	16,800
Asian/Pacific Islander .....	96,100	44,100	14,300	41,200	14,800	31,300
Other .....	5,200	1,700	1,400	3,000	700	1,000
<b>Physical/related sciences, total</b> .....	621,700	284,100	95,600	317,900	131,200	142,000
White .....	521,800	234,500	81,600	269,800	109,800	120,700
Black .....	21,500	8,000	4,100	11,900	4,200	6,300
Hispanic .....	18,400	8,300	2,400	9,600	3,800	4,800
Asian/Pacific Islander .....	57,400	32,200	7,100	25,000	12,600	9,700
Other .....	2,600	1,000	400	1,600	700	500
<b>Social/related sciences, total</b> .....	3,088,400	495,800	546,200	2,076,900	467,400	1,112,100
White .....	2,580,300	413,200	446,800	1,754,000	383,500	918,500
Black .....	222,900	31,100	46,400	144,100	34,500	88,700
Hispanic .....	142,200	24,000	31,200	83,700	18,800	59,400
Asian/Pacific Islander .....	130,600	25,400	19,200	87,100	28,800	40,300
Other .....	12,400	2,000	2,600	8,000	1,800	5,300

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

**Table C-7. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and primary/secondary work activity : 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>All degree levels<sup>1</sup> — continued</b>						
<b>Engineering, total</b> .....	1,936,400	960,300	76,800	1,169,200	500,800	335,700
White .....	1,547,200	763,200	59,500	966,800	367,300	272,000
Black .....	53,200	23,400	3,400	31,800	14,500	8,600
Hispanic .....	76,200	33,300	4,000	48,400	21,500	14,200
Asian/Pacific Islander .....	254,900	137,700	9,900	119,700	96,100	39,800
Other .....	4,900	2,600	S	2,500	1,400	1,200
<b>Non-S&amp;E degree fields, total</b> .....	3,001,500	541,800	551,700	1,878,600	434,800	1,462,100
White .....	2,574,200	454,500	459,400	1,628,300	369,000	1,263,200
Black .....	178,600	33,700	44,300	106,900	26,300	77,300
Hispanic .....	96,400	18,500	20,800	54,200	14,900	49,100
Asian/Pacific Islander .....	145,000	34,000	25,900	84,900	23,400	67,900
Other .....	7,400	1,200	1,300	4,300	1,200	4,600
<b>Bachelor's</b>						
<b>All degree fields, total</b> .....	6,350,100	1,672,600	709,500	4,128,300	1,564,700	1,726,100
White .....	5,300,500	1,395,200	577,100	3,498,700	1,277,600	1,422,100
Black .....	362,000	75,300	57,900	226,400	89,600	111,800
Hispanic .....	268,800	67,400	40,000	163,300	61,600	85,600
Asian/Pacific Islander .....	394,800	128,400	31,700	224,600	130,500	99,200
Other .....	23,900	6,200	2,800	15,300	5,400	7,400
<b>S&amp;E degree fields, total</b> .....	5,866,100	1,535,900	666,400	3,825,600	1,390,200	1,600,000
White .....	4,880,800	1,274,200	542,000	3,234,900	1,125,800	1,312,900
Black .....	336,400	69,700	54,600	209,900	80,200	106,000
Hispanic .....	255,600	64,900	37,600	155,400	57,200	81,800
Asian/Pacific Islander .....	371,100	121,600	29,400	210,700	122,200	93,100
Other .....	22,200	5,600	2,800	14,700	4,800	6,200
<b>Sciences, total</b> .....	4,486,100	908,500	624,700	2,947,600	1,044,100	1,338,200
White .....	3,734,200	748,800	508,000	2,489,800	854,700	1,098,000
Black .....	293,700	52,100	52,500	183,000	68,600	98,700
Hispanic .....	198,100	41,900	35,400	117,200	40,700	70,000
Asian/Pacific Islander .....	241,700	62,200	26,000	145,100	76,100	66,300
Other .....	18,400	3,700	2,800	12,600	4,000	5,200
<b>Computer/math sciences, total</b> .....	742,700	212,700	73,300	410,000	426,700	91,600
White .....	602,500	168,000	60,800	337,700	344,900	72,700
Black .....	48,700	13,000	6,300	23,600	25,800	8,400
Hispanic .....	28,600	10,200	2,500	15,200	16,900	3,800
Asian/Pacific Islander .....	59,900	20,600	3,300	31,400	37,800	6,500
Other .....	3,100	900	400	2,100	1,200	200
<b>Life/related sciences, total</b> .....	947,000	234,200	147,100	599,500	133,300	335,200
White .....	799,900	195,900	121,300	516,100	109,800	283,800
Black .....	48,800	10,900	10,100	29,800	8,800	15,100
Hispanic .....	39,400	9,500	7,600	23,400	4,400	14,500
Asian/Pacific Islander .....	55,000	17,000	7,200	27,900	9,700	21,100
Other .....	3,800	1,000	800	2,400	600	600

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

**Table C-7. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and primary/secondary work activity : 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>Bachelor's — continued</b>						
<b>Physical/related sciences, total</b> .....	380,900	139,700	44,700	216,400	84,800	105,800
White .....	325,800	119,500	37,900	185,700	72,300	89,900
Black .....	16,900	6,000	2,500	9,700	3,600	5,600
Hispanic .....	12,700	5,000	1,400	7,000	2,900	3,600
Asian/Pacific Islander .....	23,700	8,500	2,800	12,800	5,300	6,300
Other .....	1,800	600	100	1,200	600	400
<b>Social/related sciences, total</b> .....	2,415,500	321,900	359,700	1,721,700	399,400	805,600
White .....	2,006,000	265,300	288,100	1,450,300	327,800	651,500
Black .....	179,400	22,200	33,500	119,900	30,400	69,700
Hispanic .....	117,400	17,200	23,900	71,600	16,400	48,100
Asian/Pacific Islander .....	103,100	16,100	12,700	72,900	23,300	32,300
Other .....	9,700	1,200	1,500	7,000	1,500	4,000
<b>Engineering, total</b> .....	1,380,000	627,400	41,700	878,000	346,100	261,800
White .....	1,146,600	525,400	33,900	745,200	271,000	214,900
Black .....	42,700	17,600	2,100	26,900	11,600	7,300
Hispanic .....	57,500	22,900	2,200	38,200	16,500	11,800
Asian/Pacific Islander .....	129,400	59,400	3,400	65,600	46,100	26,800
Other .....	3,800	2,000	S	2,100	900	1,000
<b>Non-S&amp;E degree fields, total</b> .....	484,000	136,700	43,100	302,700	174,400	126,100
White .....	419,700	121,100	35,100	263,700	151,800	109,100
Black .....	25,600	5,700	3,300	16,500	9,400	5,800
Hispanic .....	13,200	2,500	2,400	7,900	4,400	3,800
Asian/Pacific Islander .....	23,800	6,900	2,300	13,900	8,300	6,100
Other .....	1,700	600	S	700	500	1,200
<b>Master's</b>						
<b>All degree fields, total</b> .....	2,982,000	830,500	575,300	1,803,700	606,900	895,700
White .....	2,440,500	649,200	483,300	1,502,500	454,700	754,900
Black .....	168,600	38,300	47,300	99,100	28,600	55,900
Hispanic .....	98,000	27,500	21,100	56,000	19,100	31,700
Asian/Pacific Islander .....	266,600	112,900	21,400	142,000	102,700	50,300
Other .....	8,200	2,500	2,200	4,200	1,800	2,900
<b>S&amp;E degree fields, total</b> .....	1,491,200	553,600	235,400	805,600	385,300	400,900
White .....	1,176,200	419,100	196,900	651,500	269,100	338,900
Black .....	67,700	18,200	17,800	36,600	14,600	20,700
Hispanic .....	47,900	17,800	8,200	25,700	10,200	13,500
Asian/Pacific Islander .....	194,500	96,300	11,100	89,900	90,000	26,500
Other .....	4,900	2,200	1,300	1,900	1,300	1,300
<b>Sciences, total</b> .....	1,040,400	299,900	221,100	552,800	253,200	336,700
White .....	844,700	232,500	186,800	456,600	185,000	288,200
Black .....	59,000	13,700	17,300	32,200	12,100	19,500
Hispanic .....	32,100	9,500	7,100	16,500	5,800	11,400
Asian/Pacific Islander .....	100,600	42,400	8,600	45,900	49,600	16,300
Other .....	4,000	1,700	1,300	1,500	800	1,200

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

**Table C-7. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and primary/secondary work activity : 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>Master's — continued</b>						
<b>Computer/math sciences, total</b> .....	262,600	92,800	43,500	126,600	148,200	25,500
White .....	191,600	63,200	36,200	95,800	100,300	20,400
Black .....	10,700	3,400	3,700	4,400	6,200	800
Hispanic .....	4,900	1,900	700	2,600	2,500	300
Asian/Pacific Islander .....	54,400	23,500	2,700	23,700	38,700	4,000
Other .....	1,000	800	100	200	500	S
<b>Life/related sciences, total</b> .....	164,100	58,100	41,000	85,700	21,400	49,500
White .....	136,500	45,000	34,900	73,400	16,200	42,900
Black .....	7,700	3,100	2,500	4,300	1,700	1,000
Hispanic .....	4,200	1,900	1,200	2,000	600	700
Asian/Pacific Islander .....	15,000	7,800	2,100	5,600	2,900	4,700
Other .....	800	300	400	400	100	200
<b>Physical/related sciences, total</b> .....	113,900	52,600	18,900	55,000	26,300	24,500
White .....	94,900	43,400	16,300	46,000	21,700	20,800
Black .....	3,100	900	1,000	1,800	400	600
Hispanic .....	3,200	1,500	300	1,800	600	900
Asian/Pacific Islander .....	12,200	6,700	1,200	5,200	3,600	2,000
Other .....	500	200	100	200	100	100
<b>Social/related sciences, total</b> .....	499,800	96,300	117,700	285,600	57,300	237,100
White .....	421,700	80,900	99,500	241,400	46,800	204,000
Black .....	37,500	6,300	10,100	21,800	3,800	17,100
Hispanic .....	19,700	4,200	4,900	10,200	2,200	9,400
Asian/Pacific Islander .....	19,000	4,400	2,500	11,500	4,400	5,700
Other .....	1,800	500	700	700	100	900
<b>Engineering, total</b> .....	450,800	253,700	14,300	252,900	132,100	64,300
White .....	331,500	186,600	10,100	194,900	84,200	50,700
Black .....	8,700	4,500	500	4,400	2,600	1,200
Hispanic .....	15,900	8,300	1,200	9,200	4,400	2,200
Asian/Pacific Islander .....	93,900	53,900	2,500	44,000	40,500	10,100
Other .....	800	500	S	400	500	100
<b>Non-S&amp;E degree fields, total</b> .....	1,490,800	276,900	339,900	998,000	221,600	494,800
White .....	1,264,300	230,100	286,400	851,000	185,500	416,100
Black .....	100,900	20,200	29,400	62,400	13,900	35,100
Hispanic .....	50,100	9,700	12,900	30,200	8,900	18,200
Asian/Pacific Islander .....	72,200	16,600	10,300	52,000	12,700	23,800
Other .....	3,400	300	900	2,300	500	1,600
<b>Doctorate</b>						
<b>All degree fields, total</b> .....	736,700	437,200	249,000	290,600	88,300	164,200
White .....	583,300	335,200	203,500	240,800	63,200	137,100
Black .....	25,800	11,100	12,800	10,000	2,100	6,500
Hispanic .....	21,200	12,100	7,600	8,700	2,000	5,300
Asian/Pacific Islander .....	103,800	77,200	23,800	30,200	20,900	14,700
Other .....	2,600	1,600	1,300	900	200	600

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

**Table C-7. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and primary/secondary work activity : 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>Doctorate — continued</b>						
<b>S&amp;E degree fields, total</b> .....	614,600	393,000	193,200	227,800	78,500	125,800
White .....	485,400	301,900	161,400	186,500	55,300	105,600
Black .....	14,400	8,000	6,300	4,900	1,300	3,400
Hispanic .....	17,100	10,400	5,700	6,500	1,600	3,900
Asian/Pacific Islander .....	95,300	71,300	18,700	29,000	20,200	12,300
Other .....	2,300	1,400	1,000	900	200	500
<b>Sciences, total</b> .....	509,000	313,800	172,300	189,400	55,900	116,100
White .....	416,300	250,600	145,900	159,700	43,200	99,300
Black .....	12,700	6,700	5,600	4,500	1,000	3,300
Hispanic .....	14,300	8,400	5,100	5,500	900	3,600
Asian/Pacific Islander .....	63,600	46,900	14,700	19,000	10,600	9,400
Other .....	2,100	1,200	1,000	800	100	500
<b>Computer/math sciences, total</b> .....	40,600	26,600	19,300	10,500	13,700	2,400
White .....	31,000	19,700	15,200	8,500	9,800	2,100
Black .....	600	400	400	100	200	S
Hispanic .....	1,000	600	600	300	300	S
Asian/Pacific Islander .....	7,700	5,600	2,800	1,600	3,400	200
Other .....	300	300	300	S	S	S
<b>Life/related sciences, total</b> .....	176,200	119,000	53,500	67,100	12,400	36,900
White .....	139,200	93,300	45,400	55,100	9,600	28,500
Black .....	4,500	2,500	1,800	1,500	300	1,200
Hispanic .....	5,800	3,400	1,300	2,500	200	1,600
Asian/Pacific Islander .....	26,000	19,300	4,900	7,700	2,200	5,500
Other .....	600	500	200	200	S	100
<b>Physical/related sciences, total</b> .....	125,900	91,500	32,000	45,700	19,300	11,800
White .....	100,000	71,300	27,400	37,200	15,100	10,000
Black .....	1,600	1,100	600	500	200	100
Hispanic .....	2,500	1,800	800	900	300	200
Asian/Pacific Islander .....	21,500	17,000	3,100	7,000	3,700	1,400
Other .....	300	200	200	200	S	S
<b>Social/related sciences, total</b> .....	166,400	76,800	67,500	66,200	10,400	65,100
White .....	146,000	66,300	58,000	58,800	8,700	58,700
Black .....	6,000	2,700	2,800	2,400	300	2,000
Hispanic .....	5,000	2,600	2,400	1,900	200	1,800
Asian/Pacific Islander .....	8,500	4,900	3,900	2,700	1,200	2,300
Other .....	800	300	400	400	100	400
<b>Engineering, total</b> .....	105,600	79,200	20,900	38,400	22,600	9,700
White .....	69,100	51,200	15,500	26,800	12,100	6,400
Black .....	1,800	1,300	700	400	300	100
Hispanic .....	2,800	2,100	600	1,000	600	200
Asian/Pacific Islander .....	31,700	24,400	4,000	10,100	9,600	2,900
Other .....	200	200	S	100	S	S

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

**Table C-7. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and primary/secondary work activity : 1999**

Level and field of highest degree, and race/ethnicity	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>Doctorate — continued</b>						
<b>Non-S&amp;E degree fields, total</b> .....	122,100	44,200	55,800	62,800	9,900	38,500
White .....	97,900	33,400	42,000	54,400	7,900	31,400
Black .....	11,400	3,100	6,500	5,100	900	3,100
Hispanic .....	4,100	1,700	2,000	2,200	400	1,400
Asian/Pacific Islander .....	8,500	5,900	5,100	1,200	700	2,400
Other .....	300	200	300	S	S	100

<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.  
 Sum of primary/secondary work activity categories exceeds total because of multiple responses.

**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)