

**Table E-8. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and primary/secondary work activity : 1993**

Highest degree, occupation, 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 occupations, total<sup>2</sup></b> .....	9,793,500	2,919,600	1,462,800	5,625,100	2,072,300	3,366,800
White .....	8,303,300	2,411,500	1,235,200	4,862,900	1,695,500	2,892,400
Black .....	503,100	129,300	103,200	283,100	103,400	170,700
Hispanic .....	306,800	96,600	50,300	161,900	63,700	111,200
Asian .....	650,800	272,400	68,300	301,700	204,800	180,600
Other .....	29,600	9,800	5,700	15,600	4,900	11,900
<b>S&amp;E occupations, total</b> .....	3,303,400	1,875,500	402,200	1,354,100	1,184,000	693,500
White .....	2,777,500	1,551,000	341,500	1,177,100	972,500	598,400
Black .....	119,400	61,400	17,900	47,800	48,800	25,200
Hispanic .....	97,200	55,700	11,100	36,500	36,300	21,300
Asian .....	299,300	201,000	29,800	88,900	124,300	45,400
Other .....	10,000	6,400	1,900	3,700	2,100	3,100
<b>Scientists, total</b> .....	1,912,300	962,900	350,400	700,100	843,200	393,500
White .....	1,612,100	792,900	300,200	609,000	702,200	343,700
Black .....	79,800	38,100	15,600	28,100	37,000	17,200
Hispanic .....	53,800	27,400	9,800	19,200	23,000	11,300
Asian .....	160,500	100,800	23,300	41,600	79,600	19,500
Other .....	6,100	3,800	1,600	2,300	1,400	1,700
<b>Computer/math scientists, total</b> ....	991,500	399,600	112,700	418,900	733,400	113,500
White .....	827,700	325,300	94,700	359,000	609,700	96,700
Black .....	44,500	18,000	5,800	18,100	32,000	5,400
Hispanic .....	26,300	11,000	3,000	11,000	20,100	3,000
Asian .....	90,600	43,700	9,000	29,800	70,400	8,200
Other .....	2,400	1,600	300	1,000	1,200	200
<b>Life/related scientists, total</b> .....	322,300	224,900	79,700	98,400	31,900	69,100
White .....	269,300	182,400	69,500	88,400	27,100	59,600
Black .....	10,400	7,900	2,600	2,500	1,200	1,700
Hispanic .....	10,100	6,900	1,900	2,500	900	2,500
Asian .....	31,300	27,100	5,100	4,800	2,700	4,600
Other .....	1,100	500	500	200	100	700
<b>Physical/related scientists, total</b> ...	280,900	204,500	48,200	86,500	51,900	49,700
White .....	237,600	170,900	41,000	76,200	44,600	42,700
Black .....	8,000	5,700	1,100	2,500	1,600	1,600
Hispanic .....	7,100	4,900	1,700	2,100	800	1,400
Asian .....	27,200	22,300	4,400	5,300	4,800	3,800
Other .....	1,000	700	100	400	100	300
<b>Social/related scientists, total</b> .....	317,600	133,900	109,800	96,400	25,900	161,200
White .....	277,500	114,300	94,900	85,400	20,900	144,700
Black .....	16,800	6,500	6,100	5,000	2,100	8,500
Hispanic .....	10,300	4,500	3,200	3,500	1,100	4,500
Asian .....	11,400	7,600	4,800	1,700	1,700	3,000
Other .....	1,600	900	700	700	S	600

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

**Table E-8. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and primary/secondary work activity : 1993**

Highest degree, occupation, 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>Engineers, total</b> .....	1,391,100	912,700	51,800	653,900	340,900	300,000
White .....	1,165,400	758,100	41,300	568,100	270,300	254,700
Black .....	39,700	23,400	2,300	19,700	11,800	8,000
Hispanic .....	43,400	28,400	1,400	17,300	13,300	10,000
Asian .....	138,800	100,200	6,500	47,300	44,700	25,900
Other .....	3,900	2,600	400	1,500	700	1,400
<b>Non-S&amp;E occupations, total</b> .....	6,490,100	1,044,100	1,060,600	4,271,100	888,300	2,673,400
White .....	5,525,800	860,500	893,700	3,685,800	722,900	2,294,000
Black .....	383,700	67,900	85,300	235,300	54,600	145,500
Hispanic .....	209,600	40,900	39,200	125,300	27,500	89,900
Asian .....	351,500	71,400	38,600	212,800	80,500	135,200
Other .....	19,600	3,400	3,800	11,900	2,700	8,800
<b>Managers/administrators</b> .....	1,994,400	275,600	65,700	1,879,800	233,700	403,600
White .....	1,731,100	237,500	55,300	1,635,300	196,100	349,100
Black .....	101,800	13,600	6,300	95,200	12,400	20,200
Hispanic .....	58,500	8,700	1,500	55,200	6,800	12,400
Asian .....	97,000	14,900	2,100	88,600	17,500	20,600
Other .....	6,100	900	500	5,500	900	1,300
<b>Other non-S&amp;E occupations</b> .....	4,495,700	768,500	994,900	2,391,200	654,600	2,269,700
White .....	3,794,700	623,000	838,400	2,050,500	526,800	1,944,900
Black .....	281,900	54,300	79,100	140,100	42,200	125,300
Hispanic .....	151,100	32,200	37,700	70,200	20,700	77,500
Asian .....	254,500	56,500	36,500	124,200	63,100	114,600
Other .....	13,500	2,600	3,300	6,300	1,800	7,500
<b>Bachelor's</b>						
<b>All occupations, total<sup>2</sup></b> .....	5,727,200	1,666,500	607,800	3,463,100	1,460,400	1,704,900
White .....	4,866,300	1,409,600	502,300	2,988,400	1,218,800	1,440,900
Black .....	320,100	83,600	52,800	183,400	79,100	99,600
Hispanic .....	191,500	58,400	25,600	107,900	46,700	60,600
Asian .....	330,900	109,100	24,400	173,300	112,100	96,500
Other .....	18,400	5,800	2,600	10,100	3,800	7,300
<b>S&amp;E occupations, total</b> .....	1,980,300	1,067,700	119,300	906,800	818,800	396,900
White .....	1,700,100	914,800	100,700	792,300	692,300	341,400
Black .....	83,400	41,400	7,400	36,900	38,100	16,100
Hispanic .....	62,600	34,500	3,800	26,400	26,600	12,700
Asian .....	127,600	72,600	6,700	48,600	60,200	24,500
Other .....	6,600	4,300	700	2,600	1,600	2,300
<b>Scientists, total</b> .....	1,007,000	454,300	97,100	426,400	584,400	168,100
White .....	859,100	384,900	81,900	369,100	499,000	143,600
Black .....	52,000	23,700	6,000	21,100	28,500	9,200
Hispanic .....	31,100	14,900	3,100	12,200	17,400	5,200
Asian .....	61,000	28,400	5,500	22,400	38,200	9,000
Other .....	3,800	2,400	700	1,600	1,200	1,000

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

**Table E-8. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and primary/secondary work activity : 1993**

Highest degree, occupation, 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>Computer/math scientists, total</b> ....	676,200	253,900	47,900	302,800	531,700	77,200
White .....	574,800	214,100	39,900	258,900	453,400	65,900
Black .....	34,500	13,200	3,300	15,400	25,500	4,300
Hispanic .....	19,800	8,000	1,400	8,800	15,700	2,000
Asian .....	45,300	17,200	3,200	18,800	36,200	4,900
Other .....	1,900	1,300	100	900	1,000	200
<b>Life/related scientists, total</b> .....	131,600	80,700	18,600	53,000	17,300	34,900
White .....	114,200	68,500	16,300	48,400	15,300	30,500
Black .....	5,800	4,400	800	1,600	700	900
Hispanic .....	4,900	3,000	400	1,300	700	1,600
Asian .....	6,100	4,600	700	1,500	600	1,400
Other .....	700	200	400	100	100	600
<b>Physical/related scientists, total</b> ...	130,700	86,800	12,600	46,200	26,000	31,400
White .....	113,500	75,100	10,300	40,900	23,100	27,200
Black .....	5,700	4,000	400	2,000	1,100	1,500
Hispanic .....	3,500	2,400	700	1,000	600	700
Asian .....	7,300	4,900	1,200	1,900	1,100	1,800
Other .....	700	500	S	300	100	200
<b>Social/related scientists, total</b> .....	68,500	32,900	18,000	24,600	9,300	24,700
White .....	56,600	27,200	15,400	20,800	7,200	20,200
Black .....	6,000	2,100	1,600	2,100	1,200	2,600
Hispanic .....	3,000	1,500	500	1,100	400	900
Asian .....	2,300	1,700	300	200	400	900
Other .....	600	400	100	300	S	100
<b>Engineers, total</b> .....	973,300	613,400	22,200	480,400	234,500	228,800
White .....	841,000	529,900	18,800	423,200	193,200	197,800
Black .....	31,400	17,700	1,400	15,800	9,700	7,000
Hispanic .....	31,500	19,600	700	14,100	9,200	7,400
Asian .....	66,600	44,300	1,300	26,200	21,900	15,500
Other .....	2,700	1,900	100	1,000	400	1,200
<b>Non-S&amp;E occupations, total</b> .....	3,746,900	598,800	488,400	2,556,300	641,600	1,308,000
White .....	3,166,200	494,800	401,600	2,196,000	526,500	1,099,500
Black .....	236,700	42,200	45,400	146,500	40,900	83,500
Hispanic .....	128,900	23,900	21,900	81,600	20,000	47,900
Asian .....	203,300	36,500	17,700	124,700	51,900	72,000
Other .....	11,800	1,500	1,900	7,500	2,200	5,100
<b>Managers/administrators</b> .....	1,134,700	134,400	28,500	1,069,800	151,700	229,200
White .....	989,300	115,800	23,200	934,600	128,300	201,000
Black .....	57,100	7,600	3,000	52,700	8,600	11,400
Hispanic .....	35,800	5,100	1,100	34,500	4,600	6,500
Asian .....	48,900	5,600	1,100	44,700	9,600	9,300
Other .....	3,700	300	100	3,300	600	900

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

**Table E-8. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and primary/secondary work activity : 1993**

Highest degree, occupation, 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>Other non-S&amp;E occupations</b> .....	2,612,200	464,400	459,900	1,486,500	489,900	1,078,900
White .....	2,176,900	379,100	378,400	1,261,400	398,200	898,500
Black .....	179,600	34,600	42,300	93,800	32,300	72,100
Hispanic .....	93,100	18,800	20,800	47,100	15,500	41,400
Asian .....	154,400	30,800	16,600	80,000	42,300	62,700
Other .....	8,100	1,200	1,700	4,200	1,600	4,200
<b>Master's</b>						
<b>All occupations, total<sup>2</sup></b> .....	2,575,600	766,400	521,900	1,475,300	520,800	757,100
White .....	2,155,400	609,400	450,200	1,264,500	405,900	647,100
Black .....	129,400	31,200	36,600	73,800	20,700	37,900
Hispanic .....	73,100	23,900	14,700	37,200	14,500	24,200
Asian .....	210,700	99,400	18,800	96,400	78,900	45,400
Other .....	7,000	2,600	1,600	3,500	900	2,500
<b>S&amp;E occupations, total</b> .....	891,300	495,900	119,500	350,500	309,600	208,200
White .....	725,900	389,600	102,000	301,100	238,300	178,500
Black .....	26,000	13,500	5,200	9,200	9,200	6,400
Hispanic .....	24,200	13,900	3,300	7,700	8,400	6,600
Asian .....	113,300	77,800	8,800	31,700	53,300	16,200
Other .....	1,900	1,100	400	700	400	500
<b>Scientists, total</b> .....	541,400	254,300	107,700	191,100	216,500	144,100
White .....	449,400	200,900	93,000	167,200	170,000	127,400
Black .....	18,800	8,700	4,900	5,500	7,100	5,500
Hispanic .....	13,500	6,200	3,000	4,700	4,600	4,100
Asian .....	58,900	38,100	6,600	13,400	34,700	6,800
Other .....	800	400	100	300	100	300
<b>Computer/math scientists, total</b> ....	263,600	111,000	40,600	105,400	181,800	32,800
White .....	212,100	84,000	35,100	90,700	141,500	28,200
Black .....	8,300	3,800	1,800	2,600	5,700	700
Hispanic .....	5,300	2,300	900	1,800	3,900	900
Asian .....	37,600	20,600	2,700	10,100	30,700	3,000
Other .....	300	300	S	100	100	S
<b>Life/related scientists, total</b> .....	70,400	46,600	19,200	20,700	8,700	13,600
White .....	57,400	35,600	16,800	18,600	7,000	12,100
Black .....	2,700	2,000	900	600	500	300
Hispanic .....	1,900	1,200	400	700	100	100
Asian .....	8,300	7,700	1,100	800	1,100	1,100
Other .....	100	S	S	S	S	100
<b>Physical/related scientists, total</b> ...	72,600	51,500	11,500	25,300	14,700	13,400
White .....	61,100	42,600	9,800	22,200	12,300	11,400
Black .....	1,200	800	100	400	300	100
Hispanic .....	1,900	1,200	400	700	100	600
Asian .....	8,200	6,700	1,100	2,000	1,900	1,300
Other .....	100	100	S	S	S	100

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

**Table E-8. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and primary/secondary work activity : 1993**

Highest degree, occupation, 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>Social/related scientists, total</b> .....	134,900	45,300	36,400	39,700	11,300	84,300
White .....	118,800	38,700	31,300	35,600	9,200	75,800
Black .....	6,600	2,100	2,100	1,900	600	4,400
Hispanic .....	4,400	1,400	1,300	1,500	500	2,500
Asian .....	4,700	3,100	1,600	600	1,000	1,400
Other .....	300	100	S	200	S	200
<b>Engineers, total</b> .....	349,900	241,600	11,900	159,400	93,100	64,100
White .....	276,600	188,700	9,000	133,900	68,300	51,100
Black .....	7,200	4,800	300	3,800	2,100	900
Hispanic .....	10,700	7,700	300	3,000	3,800	2,500
Asian .....	54,400	39,700	2,100	18,300	18,600	9,400
Other .....	1,000	600	200	400	300	200
<b>Non-S&amp;E occupations, total</b> .....	1,684,300	270,500	402,300	1,124,800	211,100	548,900
White .....	1,429,500	219,800	348,200	963,300	167,500	468,600
Black .....	103,300	17,600	31,500	64,600	11,500	31,400
Hispanic .....	48,800	10,000	11,400	29,400	6,100	17,600
Asian .....	97,500	21,600	10,000	64,600	25,600	29,200
Other .....	5,100	1,500	1,300	2,800	500	2,000
<b>Managers/administrators</b> .....	693,200	94,800	21,000	657,500	73,300	138,300
White .....	599,000	82,000	17,900	569,000	60,400	117,300
Black .....	35,700	4,400	2,400	34,100	3,600	6,300
Hispanic .....	18,700	2,600	200	17,200	2,100	5,000
Asian .....	38,100	5,200	400	35,500	7,000	9,200
Other .....	1,700	500	100	1,600	300	400
<b>Other non-S&amp;E occupations</b> .....	991,100	175,700	381,300	467,300	137,800	410,700
White .....	830,500	137,800	330,300	394,300	107,200	351,300
Black .....	67,600	13,200	29,100	30,500	7,800	25,100
Hispanic .....	30,100	7,400	11,200	12,300	4,000	12,600
Asian .....	59,400	16,400	9,600	29,100	18,600	20,000
Other .....	3,400	1,000	1,100	1,100	300	1,600
<b>Doctorate</b>						
<b>All occupations, total</b> <sup>2</sup> .....	634,800	382,100	216,800	237,700	70,400	142,200
White .....	520,800	304,400	182,900	204,100	53,800	123,200
Black .....	20,500	9,200	8,900	8,600	2,300	4,700
Hispanic .....	16,800	9,500	5,800	5,500	1,700	4,400
Asian .....	74,300	57,700	18,100	18,300	12,400	9,400
Other .....	2,400	1,300	1,100	1,200	200	500
<b>S&amp;E occupations, total</b> .....	395,600	294,000	152,600	86,000	51,900	70,100
White .....	321,300	232,000	129,700	74,200	39,300	63,000
Black .....	9,000	6,000	5,000	1,600	1,000	1,800
Hispanic .....	9,100	6,600	3,600	2,100	1,100	1,500
Asian .....	54,800	48,500	13,400	7,700	10,400	3,500
Other .....	1,400	900	800	400	100	300

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

**Table E-8. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and primary/secondary work activity : 1993**

Highest degree, occupation, 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>Scientists, total</b> .....	330,500	238,200	135,000	73,300	39,000	64,100
White .....	275,900	194,100	116,200	64,500	30,900	58,200
Black .....	8,000	5,200	4,500	1,500	900	1,700
Hispanic .....	8,000	5,600	3,200	2,000	900	1,400
Asian .....	37,400	32,500	10,300	5,000	6,300	2,500
Other .....	1,300	800	800	400	100	300
<b>Computer/math scientists, total</b> ....	48,700	33,300	24,200	9,200	17,800	3,200
White .....	38,500	26,000	19,600	7,800	13,400	2,700
Black .....	1,200	800	700	100	400	100
Hispanic .....	1,300	700	600	400	600	100
Asian .....	7,600	5,900	3,000	900	3,400	300
Other .....	200	100	100	S	100	S
<b>Life/related scientists, total</b> .....	98,100	86,100	32,900	19,400	5,500	9,000
White .....	79,900	69,300	29,200	16,800	4,600	7,700
Black .....	1,500	1,300	700	200	100	200
Hispanic .....	2,400	2,200	600	400	100	300
Asian .....	13,900	13,100	2,500	1,900	800	900
Other .....	300	300	100	100	S	S
<b>Physical/related scientists, total</b> ...	77,000	65,700	24,100	15,000	11,000	4,800
White .....	62,400	52,800	20,800	13,000	9,000	4,000
Black .....	1,100	900	600	100	100	100
Hispanic .....	1,700	1,300	600	400	100	100
Asian .....	11,600	10,700	2,000	1,300	1,800	600
Other .....	200	100	100	100	S	S
<b>Social/related scientists, total</b> .....	106,700	53,100	53,700	29,700	4,600	47,100
White .....	95,100	46,100	46,600	26,900	3,900	43,900
Black .....	4,100	2,300	2,500	1,000	300	1,400
Hispanic .....	2,600	1,500	1,400	700	100	1,000
Asian .....	4,300	2,900	2,800	900	300	600
Other .....	700	300	500	200	S	300
<b>Engineers, total</b> .....	65,000	55,800	17,600	12,700	12,900	6,000
White .....	45,400	37,900	13,500	9,700	8,500	4,800
Black .....	1,000	800	600	100	100	100
Hispanic .....	1,100	1,000	400	100	300	100
Asian .....	17,500	16,100	3,100	2,700	4,100	1,100
Other .....	100	100	S	S	S	S
<b>Non-S&amp;E occupations, total</b> .....	239,200	88,100	64,300	151,700	18,500	72,100
White .....	199,500	72,500	53,200	129,900	14,400	60,200
Black .....	11,500	3,200	3,900	6,900	1,400	3,000
Hispanic .....	7,800	2,900	2,200	3,400	600	2,900
Asian .....	19,500	9,100	4,700	10,600	2,100	5,900
Other .....	1,000	400	300	800	100	200

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

**Table E-8. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and primary/secondary work activity : 1993**

Highest degree, occupation, 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>Managers/administrators</b> .....	119,000	43,400	12,100	107,100	7,200	18,200
White .....	101,900	37,200	10,400	92,500	6,200	15,600
Black .....	5,200	1,300	600	4,600	100	800
Hispanic .....	2,500	800	300	2,100	100	400
Asian .....	8,800	4,000	600	7,300	700	1,400
Other .....	600	100	200	600	100	100
<b>Other non-S&amp;E occupations</b> .....	120,200	44,700	52,100	44,600	11,300	53,900
White .....	97,600	35,300	42,800	37,400	8,300	44,600
Black .....	6,300	1,900	3,200	2,300	1,200	2,100
Hispanic .....	5,300	2,100	2,000	1,400	500	2,600
Asian .....	10,700	5,200	4,000	3,300	1,300	4,400
Other .....	400	300	100	200	S	100

- 1 Includes professional degrees
- 2 Total excludes 37,000 individuals who reported never having worked.

**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 are employed in an S&E occupation.  
 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 Studies Division, 1993 SESTAT (Scientists and Engineers Statistical Data System)