

Table B-3. U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and employment status: 1999

Level and field of highest degree, and race/ethnicity	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
All degree levels¹								
All degree fields, total	13,050,800	10,981,600	9,793,300	1,188,400	194,400	1,874,800	1,092,900	781,900
White	10,931,000	9,124,600	8,095,400	1,029,200	153,600	1,652,800	994,000	658,800
Black	677,500	597,100	549,000	48,100	12,500	67,900	44,500	23,300
Hispanic	476,100	417,200	374,000	43,200	11,100	47,800	16,600	31,200
Asian/Pacific Islander	919,900	805,900	740,900	65,000	16,200	97,800	34,300	63,500
Other	46,300	36,800	33,900	2,900	1,000	8,500	3,400	5,100
S&E degree fields, total	9,614,400	7,980,100	7,124,200	855,900	151,300	1,483,000	833,900	649,100
White	7,970,600	6,550,400	5,815,600	734,800	117,200	1,302,900	762,700	540,300
Black	479,500	418,600	387,000	31,500	11,100	49,900	29,700	20,200
Hispanic	370,000	320,800	285,700	35,100	9,000	40,200	11,500	28,700
Asian/Pacific Islander	756,900	660,900	608,700	52,200	13,000	82,900	27,700	55,200
Other	37,400	29,400	27,100	2,300	900	7,100	2,300	4,800
Sciences, total	7,291,100	6,043,700	5,294,900	748,800	120,100	1,127,300	537,600	589,800
White	6,077,600	5,003,200	4,361,000	642,200	93,500	980,800	485,400	495,400
Black	420,600	365,300	335,200	30,200	9,700	45,500	27,300	18,200
Hispanic	285,500	244,600	212,700	31,900	7,000	33,900	8,100	25,800
Asian/Pacific Islander	475,400	406,000	363,700	42,300	9,100	60,300	14,700	45,600
Other	32,100	24,600	22,400	2,200	700	6,800	2,100	4,700
Computer/math sciences, total	1,185,600	1,045,800	957,800	88,000	13,100	126,700	71,000	55,700
White	945,100	825,100	750,000	75,100	9,500	110,500	63,400	47,200
Black	67,600	60,000	57,000	3,000	1,300	6,300	4,000	2,300
Hispanic	38,000	34,500	31,400	3,200	300	3,300	1,600	1,700
Asian/Pacific Islander	130,000	121,900	115,500	6,400	1,800	6,300	2,000	4,300
Other	4,800	4,300	4,100	300	200	200	S	200
Life/related sciences, total ...	1,582,900	1,287,700	1,136,900	150,800	24,000	271,200	111,300	159,900
White	1,318,400	1,076,100	951,100	124,900	18,700	223,600	99,800	123,800
Black	70,400	61,000	54,800	6,200	700	8,800	5,100	3,600
Hispanic	60,600	49,400	43,100	6,400	1,300	9,800	1,400	8,400
Asian/Pacific Islander	127,000	96,100	83,200	12,900	3,200	27,700	4,600	23,100
Other	6,600	5,200	4,700	500	100	1,300	300	1,000
Physical/related sciences, total	777,400	621,700	562,700	59,000	13,600	142,100	99,500	42,500
White	659,200	521,800	469,300	52,500	10,900	126,500	92,500	34,100
Black	26,700	21,500	19,500	2,100	1,300	3,900	2,500	1,400
Hispanic	21,900	18,400	17,300	1,200	500	2,900	1,400	1,500
Asian/Pacific Islander	66,800	57,400	54,200	3,300	900	8,400	3,000	5,500
Other	2,800	2,600	2,500	100	S	200	200	100
Social/related sciences, total	3,745,200	3,088,400	2,637,500	450,900	69,400	587,400	255,700	331,700
White	3,154,900	2,580,300	2,190,600	389,700	54,400	520,200	229,700	290,400
Black	255,800	222,900	203,900	18,900	6,400	26,500	15,600	10,900
Hispanic	165,000	142,200	121,000	21,200	4,900	17,900	3,600	14,200
Asian/Pacific Islander	151,600	130,600	110,800	19,700	3,200	17,800	5,100	12,700
Other	17,900	12,400	11,100	1,400	400	5,100	1,600	3,400
Engineering, total	2,323,300	1,936,400	1,829,200	107,100	31,200	355,700	296,400	59,300
White	1,893,000	1,547,200	1,454,600	92,600	23,700	322,100	277,200	44,900
Black	58,900	53,200	51,900	1,300	1,300	4,400	2,400	2,000
Hispanic	84,600	76,200	73,000	3,200	2,000	6,300	3,500	2,800
Asian/Pacific Islander	281,500	254,900	245,100	9,900	4,000	22,600	13,000	9,600
Other	5,400	4,900	4,700	100	200	300	200	100

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

Table B-3. U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and employment status: 1999

Level and field of highest degree, and race/ethnicity	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
All degree levels¹ — continued								
Non-S&E degree fields, total	3,436,400	3,001,500	2,669,100	332,400	43,100	391,800	259,000	132,800
White	2,960,400	2,574,200	2,279,800	294,400	36,300	349,900	231,400	118,500
Black	198,000	178,600	162,000	16,500	1,400	18,000	14,900	3,100
Hispanic	106,100	96,400	88,300	8,100	2,100	7,600	5,100	2,600
Asian/Pacific Islander	163,000	145,000	132,200	12,800	3,100	14,900	6,600	8,300
Other	8,900	7,400	6,800	600	100	1,400	1,100	400
Bachelor's								
All degree fields, total	7,682,100	6,350,100	5,669,800	680,300	125,800	1,206,200	639,100	567,100
White	6,464,600	5,300,500	4,711,000	589,500	99,600	1,064,400	588,300	476,100
Black	412,400	362,000	338,100	24,000	9,200	41,300	22,400	18,900
Hispanic	310,100	268,800	239,800	29,100	7,500	33,700	8,000	25,700
Asian/Pacific Islander	464,000	394,800	358,800	36,100	8,800	60,300	18,300	42,000
Other	31,100	23,900	22,200	1,700	600	6,500	2,100	4,400
S&E degree fields, total	7,131,300	5,866,100	5,230,700	635,400	116,300	1,148,900	604,200	544,700
White	5,986,400	4,880,800	4,332,300	548,500	91,000	1,014,500	556,600	457,900
Black	385,100	336,400	313,700	22,700	9,200	39,500	21,600	17,900
Hispanic	295,500	255,600	227,500	28,200	7,500	32,400	7,100	25,300
Asian/Pacific Islander	435,500	371,100	336,400	34,700	7,900	56,500	17,000	39,400
Other	28,800	22,200	20,800	1,400	600	6,000	1,800	4,200
Sciences, total	5,441,700	4,486,100	3,929,200	556,900	95,300	860,300	358,100	502,200
White	4,557,500	3,734,200	3,256,000	478,200	74,500	748,800	325,000	423,800
Black	337,700	293,700	271,900	21,700	8,200	35,900	19,500	16,400
Hispanic	231,700	198,100	172,200	25,900	6,000	27,600	4,500	23,100
Asian/Pacific Islander	290,200	241,700	212,000	29,700	6,200	42,300	7,600	34,700
Other	24,600	18,400	17,100	1,300	400	5,800	1,600	4,200
Computer/math sciences, total	845,300	742,700	685,700	57,000	9,100	93,500	47,100	46,500
White	692,600	602,500	552,400	50,000	6,600	83,600	42,700	40,900
Black	55,000	48,700	47,500	1,100	1,100	5,200	3,200	2,000
Hispanic	31,000	28,600	25,900	2,700	200	2,200	900	1,300
Asian/Pacific Islander	63,400	59,900	56,900	2,900	1,000	2,600	200	2,300
Other	3,200	3,100	2,900	200	200	S	S	S
Life/related sciences, total ...	1,177,300	947,000	826,700	120,300	19,000	211,300	74,600	136,800
White	988,500	799,900	699,300	100,600	15,100	173,400	67,200	106,200
Black	56,900	48,800	43,900	4,800	600	7,600	4,200	3,400
Hispanic	48,700	39,400	34,700	4,800	900	8,400	500	7,900
Asian/Pacific Islander	78,200	55,000	45,300	9,800	2,300	20,900	2,400	18,400
Other	5,000	3,800	3,600	300	100	1,100	200	900
Physical/related sciences, total	486,200	380,900	341,700	39,200	9,600	95,700	63,100	32,600
White	419,700	325,800	290,200	35,600	8,100	85,800	58,800	27,100
Black	20,700	16,900	15,600	1,300	1,000	2,900	1,700	1,200
Hispanic	14,900	12,700	11,800	900	300	1,800	900	1,000
Asian/Pacific Islander	28,900	23,700	22,400	1,300	200	5,000	1,600	3,400
Other	2,000	1,800	1,800	S	S	200	100	S

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

Table B-3. U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and employment status: 1999

Level and field of highest degree, and race/ethnicity	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Bachelor's — continued								
Social/related sciences, total	2,932,900	2,415,500	2,075,100	340,400	57,600	459,800	173,400	286,400
White	2,456,700	2,006,000	1,714,100	291,900	44,700	406,000	156,300	249,700
Black	205,000	179,400	164,900	14,500	5,400	20,200	10,300	9,900
Hispanic	137,100	117,400	99,900	17,500	4,600	15,100	2,200	12,900
Asian/Pacific Islander	119,700	103,100	87,400	15,700	2,700	13,900	3,300	10,500
Other	14,400	9,700	8,900	800	200	4,500	1,200	3,300
Engineering, total	1,689,600	1,380,000	1,301,500	78,500	21,000	288,600	246,100	42,500
White	1,428,800	1,146,600	1,076,300	70,200	16,600	265,700	231,600	34,100
Black	47,400	42,700	41,800	1,000	1,000	3,700	2,200	1,500
Hispanic	63,800	57,500	55,200	2,300	1,500	4,800	2,600	2,200
Asian/Pacific Islander	145,300	129,400	124,400	4,900	1,700	14,200	9,500	4,700
Other	4,300	3,800	3,700	100	200	300	200	S
Non-S&E degree fields, total	550,800	484,000	439,100	44,800	9,500	57,300	35,000	22,300
White	478,200	419,700	378,700	41,000	8,600	49,900	31,700	18,200
Black	27,400	25,600	24,400	1,200	S	1,700	800	1,000
Hispanic	14,500	13,200	12,300	900	S	1,300	900	400
Asian/Pacific Islander	28,500	23,800	22,400	1,400	900	3,800	1,200	2,600
Other	2,200	1,700	1,400	300	S	500	300	200
Master's								
All degree fields, total	3,535,900	2,982,000	2,630,100	351,900	53,900	500,000	328,600	171,300
White	2,923,000	2,440,500	2,140,800	299,700	43,000	439,500	294,900	144,600
Black	192,500	168,600	149,100	19,500	3,000	20,800	17,500	3,400
Hispanic	110,200	98,000	87,700	10,300	2,400	9,700	5,500	4,300
Asian/Pacific Islander	300,400	266,600	245,200	21,400	5,200	28,600	10,100	18,500
Other	9,800	8,200	7,300	900	300	1,300	700	600
S&E degree fields, total	1,775,600	1,491,200	1,317,700	173,500	26,200	258,100	169,700	88,500
White	1,417,600	1,176,200	1,030,500	145,600	19,700	221,700	152,200	69,600
Black	79,000	67,700	59,800	7,900	1,700	9,600	7,600	2,000
Hispanic	55,000	47,900	43,200	4,800	1,100	6,000	2,900	3,100
Asian/Pacific Islander	218,000	194,500	180,100	14,400	3,500	20,000	6,600	13,400
Other	6,000	4,900	4,100	800	200	900	400	500
Sciences, total	1,259,900	1,040,400	891,000	149,400	17,800	201,700	128,700	73,000
White	1,032,700	844,700	717,800	126,900	13,700	174,300	114,600	59,800
Black	69,400	59,000	51,400	7,600	1,400	8,900	7,400	1,500
Hispanic	37,400	32,100	27,900	4,200	600	4,800	2,200	2,500
Asian/Pacific Islander	115,200	100,600	90,700	9,900	1,800	12,800	4,100	8,700
Other	5,100	4,000	3,200	800	200	800	400	500
Computer/math sciences, total	295,600	262,600	233,600	28,900	3,800	29,200	21,000	8,200
White	218,000	191,600	168,200	23,300	2,700	23,800	18,300	5,500
Black	11,900	10,700	8,900	1,800	200	1,100	800	300
Hispanic	5,800	4,900	4,500	400	S	900	500	400
Asian/Pacific Islander	58,500	54,400	51,100	3,300	800	3,300	1,500	1,800
Other	1,300	1,000	900	100	100	200	S	200
Life/related sciences, total ...	203,100	164,100	144,600	19,600	2,700	36,200	19,400	16,800
White	168,900	136,500	121,100	15,500	2,000	30,400	17,300	13,100
Black	8,700	7,700	6,700	1,000	100	1,000	800	200
Hispanic	5,100	4,200	3,500	700	100	700	300	400
Asian/Pacific Islander	19,500	15,000	12,800	2,200	500	4,000	900	3,100
Other	900	800	600	200	S	200	100	100

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

Table B-3. U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and employment status: 1999

Level and field of highest degree, and race/ethnicity	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Master's — continued								
Physical/related sciences, total	143,100	113,900	101,100	12,800	1,400	27,800	20,500	7,200
White	119,400	94,900	84,200	10,700	800	23,700	19,000	4,700
Black	4,400	3,100	2,400	700	200	1,100	800	300
Hispanic	4,100	3,200	3,200	100	200	700	200	500
Asian/Pacific Islander	14,700	12,200	11,000	1,200	200	2,300	500	1,800
Other	500	500	400	100	S	S	S	S
Social/related sciences, total	618,100	499,800	411,600	88,100	9,900	108,500	67,800	40,700
White	526,400	421,700	344,300	77,300	8,200	96,500	60,000	36,500
Black	44,300	37,500	33,500	4,000	900	5,800	5,000	800
Hispanic	22,400	19,700	16,700	3,000	300	2,400	1,200	1,200
Asian/Pacific Islander	22,600	19,000	15,700	3,300	400	3,200	1,300	1,900
Other	2,400	1,800	1,400	400	200	500	300	200
Engineering, total	515,700	450,800	426,700	24,100	8,400	56,500	41,000	15,500
White	384,900	331,500	312,700	18,800	6,000	47,400	37,600	9,800
Black	9,600	8,700	8,400	300	300	600	200	400
Hispanic	17,600	15,900	15,300	600	500	1,200	600	600
Asian/Pacific Islander	102,700	93,900	89,400	4,500	1,600	7,200	2,500	4,700
Other	900	800	800	S	S	S	S	S
Non-S&E degree fields, total	1,760,300	1,490,800	1,312,400	178,400	27,700	241,800	158,900	82,900
White	1,505,300	1,264,300	1,110,300	154,000	23,300	217,800	142,700	75,100
Black	113,500	100,900	89,300	11,600	1,300	11,300	9,900	1,400
Hispanic	55,200	50,100	44,500	5,600	1,400	3,800	2,600	1,200
Asian/Pacific Islander	82,500	72,200	65,100	7,100	1,700	8,600	3,500	5,100
Other	3,800	3,400	3,200	100	100	400	300	100
Doctorate								
All degree fields, total	839,000	736,700	672,400	64,300	9,100	93,300	75,500	17,700
White	671,300	583,300	526,500	56,800	6,700	81,200	66,600	14,700
Black	29,100	25,800	24,200	1,600	200	3,100	2,800	300
Hispanic	23,500	21,200	19,100	2,200	400	1,900	1,600	300
Asian/Pacific Islander	112,000	103,800	100,100	3,700	1,600	6,600	4,100	2,400
Other	3,200	2,600	2,500	100	100	500	500	S
S&E degree fields, total	698,500	614,600	567,700	46,800	8,800	75,100	59,600	15,500
White	557,700	485,400	444,900	40,500	6,500	65,800	53,400	12,500
Black	15,400	14,400	13,500	900	200	800	400	300
Hispanic	19,400	17,100	15,000	2,200	400	1,900	1,600	300
Asian/Pacific Islander	103,400	95,300	92,200	3,100	1,600	6,500	4,000	2,400
Other	2,500	2,300	2,200	100	100	200	200	S
Sciences, total	580,400	509,000	466,700	42,300	7,000	64,500	50,300	14,200
White	478,400	416,300	379,400	36,900	5,300	56,800	45,400	11,500
Black	13,600	12,700	11,800	900	200	700	400	300
Hispanic	16,300	14,300	12,500	1,800	400	1,600	1,300	200
Asian/Pacific Islander	69,800	63,600	61,000	2,700	1,000	5,200	3,000	2,200
Other	2,300	2,100	2,000	100	100	200	100	S

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

Table B-3. U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and employment status: 1999

Level and field of highest degree, and race/ethnicity	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Doctorate — continued								
Computer/math sciences, total	44,500	40,600	38,500	2,100	200	3,700	2,900	800
White	34,300	31,000	29,300	1,700	200	3,000	2,400	600
Black	700	600	500	100	S	100	S	100
Hispanic	1,200	1,000	1,000	S	S	200	200	S
Asian/Pacific Islander	8,100	7,700	7,400	200	S	500	300	100
Other	300	300	300	S	S	S	S	S
Life/related sciences, total ...	202,000	176,200	165,100	11,000	2,300	23,600	17,400	6,300
White	160,600	139,200	130,400	8,800	1,500	19,800	15,300	4,500
Black	4,700	4,500	4,200	300	S	200	100	100
Hispanic	6,800	5,800	4,900	900	300	700	600	100
Asian/Pacific Islander	29,200	26,000	25,100	900	300	2,900	1,300	1,600
Other	700	600	600	S	S	100	S	S
Physical/related sciences, total	147,000	125,900	118,800	7,100	2,600	18,600	15,900	2,700
White	119,000	100,000	93,900	6,100	2,000	17,000	14,700	2,400
Black	1,600	1,600	1,500	100	S	S	S	S
Hispanic	2,800	2,500	2,300	200	S	300	300	100
Asian/Pacific Islander	23,200	21,500	20,800	700	500	1,200	900	300
Other	400	300	300	S	S	S	S	S
Social/related sciences, total	186,800	166,400	144,200	22,100	1,900	18,600	14,100	4,500
White	164,600	146,000	125,800	20,200	1,600	17,000	12,900	4,000
Black	6,500	6,000	5,600	400	100	500	300	200
Hispanic	5,400	5,000	4,300	700	S	300	300	100
Asian/Pacific Islander	9,300	8,500	7,700	800	100	700	500	200
Other	1,000	800	800	100	S	100	100	S
Engineering, total	118,100	105,600	101,100	4,500	1,900	10,600	9,300	1,300
White	79,300	69,100	65,500	3,600	1,200	9,000	8,000	1,000
Black	1,900	1,800	1,700	100	S	100	S	100
Hispanic	3,100	2,800	2,500	300	S	300	300	S
Asian/Pacific Islander	33,600	31,700	31,200	500	600	1,300	1,000	200
Other	200	200	200	S	S	S	S	S
Non-S&E degree fields, total	140,600	122,100	104,600	17,500	200	18,200	16,000	2,200
White	113,600	97,900	81,700	16,300	200	15,400	13,200	2,200
Black	13,700	11,400	10,700	700	S	2,300	2,300	S
Hispanic	4,100	4,100	4,100	S	S	S	S	S
Asian/Pacific Islander	8,600	8,500	7,900	500	S	100	100	S
Other	600	300	300	S	S	300	300	S

1 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)