

Table B-3. U.S. scientists and engineers, by level and broad field of highest degree attained, race/ethnicity, and employment status: 1997

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	12,530,700	10,585,600	9,476,700	1,109,000	193,700	1,751,400	1,005,100	746,300
White	10,567,300	8,877,500	7,913,200	964,300	148,100	1,541,700	918,300	623,300
Black	640,700	555,600	509,300	46,300	14,400	70,700	40,700	30,000
Hispanic	423,600	371,500	333,600	37,900	10,000	42,000	13,500	28,500
Asian	856,500	745,600	688,500	57,100	19,800	91,000	30,000	61,000
Other	42,700	35,400	32,100	3,300	1,300	6,000	2,500	3,400
S&E degree fields, total	9,269,200	7,704,000	6,891,200	812,800	150,500	1,414,700	787,500	627,200
White	7,744,600	6,390,800	5,688,200	702,600	112,300	1,241,600	723,900	517,700
Black	459,700	395,800	364,800	31,000	11,500	52,400	26,800	25,600
Hispanic	326,600	282,800	253,200	29,600	7,900	35,900	10,100	25,900
Asian	705,200	607,700	560,900	46,800	17,500	79,900	25,200	54,700
Other	33,100	26,900	24,200	2,700	1,300	4,900	1,600	3,300
Sciences, total	6,977,800	5,794,700	5,093,400	701,300	115,700	1,067,300	498,400	569,000
White	5,854,300	4,841,800	4,234,800	607,000	87,300	925,200	451,700	473,500
Black	404,800	345,900	317,600	28,200	9,900	49,000	24,600	24,400
Hispanic	248,800	212,800	186,100	26,700	5,600	30,400	7,000	23,400
Asian	441,600	371,800	334,900	36,800	11,800	58,000	13,500	44,500
Other	28,300	22,600	20,000	2,600	1,000	4,800	1,600	3,200
Computer/math sciences, total	1,136,000	1,003,300	925,300	78,000	16,700	116,000	63,000	53,000
White	915,700	802,200	735,000	67,200	12,000	101,500	57,400	44,100
Black	64,500	58,000	55,000	3,000	1,400	5,100	3,000	2,100
Hispanic	32,700	29,300	27,300	1,900	900	2,600	1,100	1,500
Asian	119,400	110,700	105,000	5,700	2,000	6,800	1,500	5,200
Other	3,700	3,100	3,000	200	500	100	100	S
Life/related sciences, total ...	1,475,600	1,204,700	1,061,800	142,800	23,300	247,600	103,900	143,700
White	1,243,100	1,022,500	900,000	122,500	16,300	204,200	93,200	111,000
Black	65,800	53,600	49,000	4,600	2,000	10,100	4,600	5,500
Hispanic	50,600	39,200	35,400	3,800	2,200	9,200	1,500	7,700
Asian	110,900	85,200	73,600	11,600	2,800	22,900	4,200	18,700
Other	5,300	4,100	3,800	300	S	1,200	400	800
Physical/related sciences, total	773,200	619,200	559,100	60,100	12,400	141,600	92,500	49,100
White	658,600	521,800	468,500	53,300	9,300	127,500	86,800	40,700
Black	26,500	21,700	20,500	1,200	400	4,400	2,600	1,800
Hispanic	19,400	16,500	14,800	1,700	500	2,400	900	1,500
Asian	65,800	57,000	53,400	3,600	2,000	6,700	1,900	4,800
Other	2,900	2,100	1,800	300	200	500	300	200
Social/related sciences, total	3,593,000	2,967,600	2,547,200	420,400	63,300	562,100	238,900	323,300
White	3,036,900	2,495,200	2,131,200	364,000	49,700	492,000	214,300	277,700
Black	248,000	212,600	193,100	19,500	6,100	29,300	14,400	14,900
Hispanic	146,200	127,800	108,600	19,200	2,100	16,200	3,500	12,700
Asian	145,500	118,800	102,900	15,900	5,100	21,600	5,900	15,800
Other	16,500	13,200	11,400	1,800	300	3,000	800	2,200
Engineering, total	2,291,400	1,909,200	1,797,700	111,500	34,800	347,300	289,200	58,200
White	1,890,300	1,549,000	1,453,400	95,600	25,000	316,400	272,200	44,200
Black	54,900	49,900	47,200	2,800	1,600	3,400	2,200	1,200
Hispanic	77,800	70,000	67,000	3,000	2,200	5,600	3,100	2,500
Asian	263,600	235,900	225,900	10,000	5,700	21,900	11,700	10,200
Other	4,800	4,400	4,200	100	300	100	S	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: 1997

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	3,261,500	2,881,700	2,585,500	296,200	43,200	336,700	217,600	119,100
White	2,822,600	2,486,800	2,225,000	261,700	35,800	300,100	194,400	105,600
Black	181,000	159,800	144,500	15,300	2,900	18,300	14,000	4,400
Hispanic	97,000	88,700	80,400	8,300	2,200	6,100	3,400	2,600
Asian	151,300	137,900	127,600	10,300	2,300	11,100	4,800	6,300
Other	9,600	8,500	7,900	600	S	1,100	900	200
Bachelor's								
All degree fields, total	7,469,000	6,193,700	5,545,400	648,300	125,200	1,150,100	604,800	545,300
White	6,321,200	5,212,700	4,649,200	563,500	93,800	1,014,700	559,700	455,000
Black	400,000	345,000	319,100	25,900	10,800	44,200	20,400	23,800
Hispanic	273,800	237,700	213,300	24,500	6,800	29,200	6,300	22,900
Asian	445,100	374,900	342,500	32,300	12,900	57,400	17,000	40,300
Other	29,000	23,400	21,200	2,200	1,000	4,600	1,400	3,200
S&E degree fields, total	6,906,400	5,683,700	5,076,700	607,000	117,000	1,105,700	579,400	526,300
White	5,833,700	4,771,000	4,244,400	526,700	87,300	975,300	536,300	439,000
Black	371,600	319,500	294,900	24,600	9,800	42,400	19,400	23,000
Hispanic	259,200	224,000	200,300	23,700	6,800	28,400	5,900	22,500
Asian	416,000	348,500	318,500	30,000	12,100	55,400	16,600	38,800
Other	26,000	20,700	18,700	2,100	1,000	4,300	1,300	3,000
Sciences, total	5,212,100	4,303,400	3,779,700	523,700	89,600	819,100	338,400	480,700
White	4,387,500	3,610,600	3,157,400	453,200	66,900	710,000	308,400	401,500
Black	326,700	279,000	256,400	22,500	8,400	39,400	17,300	22,100
Hispanic	200,800	171,600	149,800	21,800	5,100	24,200	3,800	20,400
Asian	274,600	224,800	200,500	24,300	8,500	41,300	7,600	33,700
Other	22,500	17,500	15,600	1,900	700	4,200	1,300	3,000
Computer/math sciences, total	817,000	721,600	667,500	54,100	11,400	83,900	40,800	43,200
White	672,600	590,600	542,400	48,200	8,100	73,800	36,700	37,200
Black	52,900	47,700	45,700	2,000	900	4,300	2,600	1,700
Hispanic	26,500	24,100	22,500	1,500	800	1,700	600	1,000
Asian	62,000	56,700	54,400	2,200	1,300	4,100	800	3,300
Other	2,900	2,600	2,500	100	300	100	100	S
Life/related sciences, total ...	1,090,600	884,500	774,200	110,300	17,200	189,000	67,800	121,200
White	925,300	759,300	663,700	95,500	11,600	154,400	61,500	92,900
Black	52,700	42,300	38,300	3,900	1,700	8,700	3,400	5,300
Hispanic	40,000	30,200	27,300	2,900	2,000	7,800	700	7,100
Asian	68,700	49,800	42,000	7,800	1,800	17,200	1,900	15,300
Other	3,900	3,000	2,900	100	S	900	200	700
Physical/related sciences, total	489,000	381,900	341,700	40,200	8,000	99,200	60,900	38,300
White	422,600	326,300	289,900	36,400	6,300	90,100	57,600	32,500
Black	20,200	16,900	16,200	700	S	3,300	1,700	1,600
Hispanic	13,500	11,700	10,400	1,300	400	1,400	500	900
Asian	30,700	25,600	24,100	1,600	1,200	3,900	900	3,000
Other	2,100	1,400	1,100	300	200	500	300	200

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: 1997

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	2,815,500	2,315,500	1,996,400	319,100	52,900	447,000	168,900	278,100
White	2,367,000	1,934,500	1,661,400	273,100	40,800	391,700	152,700	239,000
Black	200,900	172,100	156,200	15,900	5,700	23,100	9,500	13,500
Hispanic	120,800	105,600	89,600	16,000	1,900	13,400	2,000	11,400
Asian	113,200	92,700	80,000	12,700	4,300	16,200	4,000	12,200
Other	13,500	10,600	9,100	1,400	200	2,700	700	2,000
Engineering, total	1,694,300	1,380,300	1,297,000	83,300	27,400	286,600	241,000	45,600
White	1,446,200	1,160,400	1,087,000	73,500	20,400	265,300	227,900	37,500
Black	44,900	40,500	38,400	2,100	1,400	3,000	2,100	900
Hispanic	58,300	52,400	50,500	1,900	1,800	4,200	2,100	2,100
Asian	141,300	123,700	118,000	5,700	3,600	14,100	9,000	5,100
Other	3,500	3,200	3,100	100	300	100	S	100
Non-S&E degree fields, total	562,600	510,000	468,700	41,300	8,200	44,400	25,400	19,000
White	487,500	441,700	404,900	36,800	6,400	39,400	23,400	16,000
Black	28,400	25,500	24,300	1,300	1,000	1,900	1,000	800
Hispanic	14,600	13,800	13,000	800	S	900	500	400
Asian	29,100	26,400	24,000	2,400	800	2,000	500	1,500
Other	2,900	2,700	2,500	100	S	300	100	100
Master's								
All degree fields, total	3,316,800	2,819,800	2,503,300	316,500	52,300	444,700	289,600	155,100
White	2,759,000	2,330,500	2,056,700	273,700	41,400	387,100	259,100	128,100
Black	176,300	151,300	136,600	14,700	2,900	22,100	16,900	5,200
Hispanic	99,800	88,100	79,000	9,100	2,700	8,900	4,800	4,100
Asian	272,900	242,000	223,900	18,100	4,900	25,900	8,400	17,600
Other	8,800	7,900	7,000	900	300	700	500	200
S&E degree fields, total	1,698,100	1,431,600	1,273,100	158,500	25,400	241,100	154,900	86,200
White	1,369,800	1,144,400	1,009,400	135,000	18,800	206,700	139,900	66,800
Black	74,600	63,500	57,900	5,600	1,600	9,500	7,100	2,400
Hispanic	49,900	43,600	39,200	4,400	800	5,600	2,600	2,900
Asian	198,800	175,900	163,000	12,900	3,900	19,000	5,100	13,900
Other	4,900	4,200	3,700	500	300	400	200	200
Sciences, total	1,209,600	1,001,000	866,400	134,600	19,400	189,200	114,200	75,000
White	1,000,900	822,800	706,600	116,300	14,900	163,100	102,200	60,900
Black	66,100	55,500	50,600	4,900	1,500	9,100	7,000	2,100
Hispanic	33,000	28,100	24,500	3,600	400	4,500	1,900	2,500
Asian	105,900	91,300	82,100	9,200	2,400	12,200	2,900	9,300
Other	3,900	3,200	2,600	500	300	400	200	200
Computer/math sciences, total	278,900	244,700	222,800	21,800	4,900	29,300	20,100	9,200
White	211,900	183,200	165,900	17,300	3,500	25,200	18,800	6,400
Black	11,100	9,800	8,900	1,000	500	800	300	400
Hispanic	5,200	4,400	4,000	400	100	700	300	400
Asian	49,900	46,700	43,600	3,100	600	2,600	700	1,900
Other	700	500	400	100	200	S	S	S
Life/related sciences, total ...	197,000	156,600	136,500	20,100	3,200	37,200	20,100	17,100
White	164,600	130,600	113,900	16,700	2,300	31,600	18,000	13,700
Black	9,100	7,600	7,200	400	300	1,200	1,000	200
Hispanic	4,400	3,700	3,400	400	100	600	200	400
Asian	18,000	13,900	11,500	2,400	500	3,500	700	2,800
Other	900	700	400	200	S	200	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: 1997

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	142,700	114,500	102,000	12,600	2,400	25,700	17,800	7,900
White	119,800	96,100	85,700	10,500	1,500	22,100	16,400	5,700
Black	4,600	3,200	2,800	400	300	1,100	900	200
Hispanic	3,100	2,400	2,100	300	S	700	200	500
Asian	14,700	12,400	11,100	1,300	500	1,800	300	1,400
Other	400	400	400	S	S	S	S	S
Social/related sciences, total	591,100	485,300	405,100	80,100	8,800	97,000	56,200	40,900
White	504,500	412,900	341,100	71,800	7,600	84,100	49,000	35,100
Black	41,200	34,900	31,700	3,100	300	6,000	4,700	1,300
Hispanic	20,300	17,600	15,000	2,600	200	2,500	1,200	1,200
Asian	23,200	18,300	15,900	2,400	700	4,200	1,100	3,100
Other	1,900	1,600	1,400	200	100	200	100	100
Engineering, total	488,500	430,600	406,700	23,900	6,000	51,900	40,700	11,200
White	369,000	321,500	302,800	18,700	3,900	43,500	37,600	5,900
Black	8,600	8,000	7,300	700	200	400	100	300
Hispanic	17,000	15,500	14,700	800	400	1,100	700	400
Asian	92,900	84,600	80,900	3,700	1,500	6,800	2,200	4,600
Other	1,100	1,000	1,000	S	100	S	S	S
Non-S&E degree fields, total	1,618,700	1,388,200	1,230,200	158,000	26,900	203,600	134,700	68,900
White	1,389,200	1,186,100	1,047,400	138,800	22,600	180,500	119,200	61,300
Black	101,700	87,800	78,700	9,100	1,300	12,600	9,800	2,800
Hispanic	49,800	44,500	39,900	4,600	2,000	3,400	2,200	1,100
Asian	74,100	66,100	60,900	5,100	1,100	6,900	3,300	3,700
Other	3,900	3,700	3,300	300	S	300	300	S
Doctorate								
All degree fields, total	790,500	696,000	637,400	58,700	9,800	84,600	67,700	16,900
White	643,200	562,200	511,000	51,200	7,400	73,600	59,800	13,800
Black	24,600	21,300	20,100	1,300	600	2,700	2,200	500
Hispanic	21,600	19,100	17,200	1,900	300	2,200	1,600	700
Asian	98,400	91,100	87,000	4,100	1,500	5,700	3,700	2,000
Other	2,700	2,200	2,100	200	S	500	400	S
S&E degree fields, total	654,900	580,300	534,300	46,000	8,200	66,500	52,600	13,800
White	532,000	467,400	427,700	39,700	6,200	58,400	47,200	11,300
Black	13,500	12,800	12,000	800	200	500	300	200
Hispanic	17,300	15,000	13,600	1,500	300	2,000	1,600	400
Asian	90,000	83,100	79,200	3,900	1,500	5,400	3,500	1,900
Other	2,100	1,900	1,800	100	S	100	100	S
Sciences, total	546,400	482,000	440,400	41,700	6,800	57,600	45,200	12,500
White	456,900	400,400	364,200	36,200	5,500	50,900	40,500	10,500
Black	12,000	11,400	10,600	800	100	500	300	200
Hispanic	14,800	12,900	11,700	1,200	200	1,700	1,300	400
Asian	60,700	55,500	52,200	3,300	900	4,300	3,000	1,300
Other	1,900	1,800	1,700	100	S	100	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: 1997

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	39,900	36,900	34,900	2,000	400	2,700	2,200	500
White	30,900	28,200	26,600	1,600	300	2,400	2,000	400
Black	500	500	500	S	S	S	S	S
Hispanic	1,000	800	800	S	S	200	100	S
Asian	7,400	7,300	7,000	300	S	100	100	S
Other	S	S	S	S	S	S	S	S
Life/related sciences, total ...	186,500	162,500	150,600	11,900	2,900	21,100	16,000	5,100
White	151,800	131,600	121,900	9,700	2,400	17,800	13,700	4,100
Black	4,000	3,700	3,500	200	100	200	100	100
Hispanic	6,200	5,300	4,700	600	S	800	600	200
Asian	24,100	21,400	20,000	1,400	400	2,200	1,600	600
Other	500	500	500	S	S	S	S	S
Physical/related sciences, total	140,800	122,200	114,900	7,300	2,000	16,700	13,800	2,900
White	115,600	98,900	92,500	6,400	1,500	15,300	12,800	2,500
Black	1,600	1,600	1,500	100	S	S	S	S
Hispanic	2,800	2,400	2,300	100	100	300	300	S
Asian	20,400	19,000	18,300	700	300	1,100	600	400
Other	400	400	400	S	S	S	S	S
Social/related sciences, total	179,200	160,500	139,900	20,600	1,500	17,200	13,200	4,000
White	158,600	141,700	123,100	18,600	1,300	15,500	12,000	3,500
Black	5,900	5,600	5,200	400	100	200	200	100
Hispanic	4,900	4,400	3,900	500	100	400	300	100
Asian	8,900	7,800	6,900	900	100	900	700	300
Other	1,000	900	800	100	S	100	S	S
Engineering, total	108,500	98,200	93,900	4,300	1,400	8,800	7,500	1,400
White	75,100	66,900	63,500	3,400	600	7,500	6,700	800
Black	1,400	1,400	1,400	S	S	S	S	S
Hispanic	2,500	2,200	1,900	300	100	300	300	S
Asian	29,300	27,600	27,000	600	700	1,000	500	500
Other	200	100	100	S	S	S	S	S
Non-S&E degree fields, total	135,600	115,800	103,100	12,700	1,600	18,100	15,100	3,100
White	111,200	94,900	83,300	11,500	1,200	15,100	12,600	2,500
Black	11,100	8,500	8,000	500	400	2,200	1,900	300
Hispanic	4,300	4,100	3,600	400	S	200	S	200
Asian	8,300	8,000	7,800	200	S	300	200	100
Other	600	300	200	100	S	300	300	S

1 Includes professional degrees

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 or 1997 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 Studies Division, 1997 SESTAT (Scientists and Engineers Statistical Data System)