

Table C-4. Employed U.S. scientists and engineers, by level and field of highest degree attained, race/ethnicity, and employment sector: 1997

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
All degree levels¹					
All degree fields, total	10,585,600	7,264,900	940,600	1,012,900	1,367,300
White	8,877,500	6,205,100	752,500	847,000	1,072,900
Black	555,600	279,600	49,700	90,000	136,300
Hispanic	371,500	227,700	38,400	44,000	61,400
Asian	745,600	532,900	95,700	27,900	89,100
Other	35,400	19,500	4,300	4,100	7,500
S&E degree fields, total	7,704,000	5,330,200	682,900	661,600	1,029,200
White	6,390,800	4,491,800	542,300	554,600	802,100
Black	395,800	204,300	33,300	56,200	102,100
Hispanic	282,800	179,000	29,100	28,300	46,400
Asian	607,700	439,500	75,400	19,800	73,000
Other	26,900	15,600	2,800	2,800	5,700
Sciences, total	5,794,700	3,768,600	599,700	641,300	785,200
White	4,841,800	3,206,300	482,200	537,300	616,000
Black	345,900	169,300	30,300	55,300	90,900
Hispanic	212,800	124,500	26,000	27,600	34,700
Asian	371,800	256,100	58,600	18,400	38,700
Other	22,600	12,400	2,500	2,800	4,900
Computer/math sciences, total	1,003,300	756,100	65,700	99,600	81,900
White	802,200	603,700	52,700	84,300	61,500
Black	58,000	35,600	2,800	8,800	10,800
Hispanic	29,300	21,200	1,800	2,800	3,400
Asian	110,700	93,100	8,300	3,300	5,900
Other	3,100	2,500	200	200	300
Life/related sciences, total	1,204,700	720,700	202,600	123,000	158,400
White	1,022,500	624,200	161,800	104,800	131,800
Black	53,600	26,500	7,800	9,200	10,100
Hispanic	39,200	22,600	7,100	3,900	5,600
Asian	85,200	46,200	25,200	4,500	9,300
Other	4,100	1,200	700	700	1,500
Physical/related sciences, total	619,200	417,300	90,100	38,100	73,700
White	521,800	354,600	73,500	33,000	60,800
Black	21,700	13,100	2,000	2,100	4,500
Hispanic	16,500	9,900	3,400	1,000	2,200
Asian	57,000	38,400	10,800	1,900	5,900
Other	2,100	1,300	300	100	300
Social/related sciences, total	2,967,600	1,874,500	241,300	380,600	471,200
White	2,495,200	1,623,900	194,200	315,200	361,900
Black	212,600	94,100	17,700	35,200	65,500
Hispanic	127,800	70,800	13,800	19,800	23,400
Asian	118,800	78,400	14,300	8,700	17,500
Other	13,200	7,300	1,300	1,800	2,800

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: 1997

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
All degree levels¹ — continued					
Engineering, total	1,909,200	1,561,600	83,200	20,300	244,100
White	1,549,000	1,285,500	60,100	17,300	186,100
Black	49,900	35,000	2,900	900	11,200
Hispanic	70,000	54,400	3,100	700	11,800
Asian	235,900	183,500	16,800	1,400	34,300
Other	4,400	3,300	300	S	800
Non-S&E degree fields, total	2,881,700	1,934,700	257,700	351,300	338,000
White	2,486,800	1,713,400	210,200	292,400	270,800
Black	159,800	75,300	16,400	33,800	34,200
Hispanic	88,700	48,800	9,300	15,700	14,900
Asian	137,900	93,300	20,300	8,100	16,200
Other	8,500	3,800	1,500	1,300	1,900
Bachelor's					
All degree fields, total	6,193,700	4,582,200	317,600	463,200	830,700
White	5,212,700	3,938,600	251,300	382,700	640,100
Black	345,000	193,900	19,200	40,900	91,000
Hispanic	237,700	156,500	17,300	23,200	40,700
Asian	374,900	279,200	27,800	14,400	53,500
Other	23,400	13,900	2,000	2,100	5,500
S&E degree fields, total	5,683,700	4,177,500	294,000	441,500	770,700
White	4,771,000	3,583,000	231,500	364,800	591,700
Black	319,500	175,600	18,600	39,300	86,000
Hispanic	224,000	147,200	16,800	22,000	38,000
Asian	348,500	258,800	25,900	13,400	50,400
Other	20,700	12,900	1,200	1,900	4,600
Sciences, total	4,303,400	3,022,100	264,100	425,900	591,400
White	3,610,600	2,594,500	209,100	351,400	455,600
Black	279,000	146,800	17,100	38,400	76,600
Hispanic	171,600	106,000	15,300	21,500	28,800
Asian	224,800	164,500	21,200	12,600	26,500
Other	17,500	10,300	1,200	1,900	4,000
Computer/math sciences, total	721,600	568,700	26,300	64,100	62,500
White	590,600	468,800	22,400	54,100	45,400
Black	47,700	30,800	1,200	6,000	9,700
Hispanic	24,100	17,900	700	2,300	3,200
Asian	56,700	49,100	1,900	1,500	4,200
Other	2,600	2,200	100	200	200
Life/related sciences, total	884,500	593,100	89,100	87,800	114,500
White	759,300	519,500	71,200	74,000	94,500
Black	42,300	22,800	4,200	7,100	8,200
Hispanic	30,200	18,900	3,500	3,200	4,600
Asian	49,800	31,000	9,800	3,100	5,900
Other	3,000	900	400	400	1,300

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: 1997

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
Bachelor's — continued					
Physical/related sciences, total	381,900	283,600	33,200	21,200	43,900
White	326,300	245,100	27,700	17,800	35,700
Black	16,900	11,200	1,100	1,200	3,400
Hispanic	11,700	7,200	2,100	800	1,600
Asian	25,600	19,100	2,200	1,300	3,000
Other	1,400	1,000	100	100	200
Social/related sciences, total	2,315,500	1,576,700	115,500	252,800	370,500
White	1,934,500	1,361,100	87,900	205,500	280,000
Black	172,100	82,000	10,600	24,200	55,400
Hispanic	105,600	62,000	9,000	15,300	19,400
Asian	92,700	65,400	7,300	6,600	13,400
Other	10,600	6,300	600	1,300	2,300
Engineering, total	1,380,300	1,155,400	29,900	15,600	179,300
White	1,160,400	988,500	22,300	13,400	136,200
Black	40,500	28,800	1,400	800	9,400
Hispanic	52,400	41,200	1,400	500	9,200
Asian	123,700	94,300	4,700	800	23,900
Other	3,200	2,600	S	S	600
Non-S&E degree fields, total	510,000	404,600	23,600	21,800	60,000
White	441,700	355,600	19,800	17,900	48,300
Black	25,500	18,300	600	1,600	5,000
Hispanic	13,800	9,400	500	1,200	2,700
Asian	26,400	20,400	1,900	1,000	3,100
Other	2,700	1,000	800	100	800
Master's					
All degree fields, total	2,819,800	1,736,000	219,300	492,100	372,500
White	2,330,500	1,444,400	172,400	416,000	297,700
Black	151,300	57,200	14,800	45,300	34,000
Hispanic	88,100	46,600	8,300	18,400	14,800
Asian	242,000	183,900	23,000	10,600	24,500
Other	7,900	3,800	700	1,900	1,500
S&E degree fields, total	1,431,600	898,400	133,200	199,200	200,900
White	1,144,400	710,400	100,600	171,800	161,500
Black	63,500	24,800	7,800	16,200	14,700
Hispanic	43,600	25,600	5,100	5,800	7,200
Asian	175,900	135,500	19,100	4,600	16,700
Other	4,200	2,100	600	700	800
Sciences, total	1,001,000	552,800	109,100	195,200	144,000
White	822,800	452,100	84,700	168,500	117,600
Black	55,500	19,400	6,900	16,200	13,000
Hispanic	28,100	13,700	4,100	5,600	4,700
Asian	91,300	66,200	12,900	4,200	8,000
Other	3,200	1,400	400	700	600

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: 1997

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
Master's — continued					
Computer/math sciences, total	244,700	174,100	18,400	34,400	17,700
White	183,200	125,000	13,800	29,600	14,700
Black	9,800	4,700	1,200	2,800	1,100
Hispanic	4,400	3,200	500	500	200
Asian	46,700	40,900	2,800	1,400	1,600
Other	500	300	100	S	100
Life/related sciences, total	156,600	72,900	27,700	29,600	26,400
White	130,600	61,600	20,600	25,900	22,600
Black	7,600	2,600	1,600	2,000	1,500
Hispanic	3,700	1,500	800	700	700
Asian	13,900	7,000	4,600	800	1,500
Other	700	200	100	300	100
Physical/related sciences, total	114,500	70,600	14,100	13,400	16,400
White	96,100	59,900	10,500	12,200	13,500
Black	3,200	1,300	200	700	900
Hispanic	2,400	1,600	400	200	300
Asian	12,400	7,500	3,000	200	1,700
Other	400	200	S	S	100
Social/related sciences, total	485,300	235,200	48,900	117,800	83,400
White	412,900	205,600	39,800	100,800	66,700
Black	34,900	10,800	3,900	10,600	9,600
Hispanic	17,600	7,400	2,400	4,200	3,500
Asian	18,300	10,800	2,600	1,700	3,200
Other	1,600	700	200	400	300
Engineering, total	430,600	345,600	24,200	4,000	56,900
White	321,500	258,400	15,900	3,400	43,900
Black	8,000	5,500	900	S	1,700
Hispanic	15,500	11,800	1,000	200	2,400
Asian	84,600	69,300	6,200	400	8,700
Other	1,000	700	200	S	100
Non-S&E degree fields, total	1,388,200	837,600	86,000	292,900	171,600
White	1,186,100	733,900	71,800	244,100	136,200
Black	87,800	32,400	7,000	29,100	19,300
Hispanic	44,500	21,100	3,200	12,600	7,600
Asian	66,100	48,400	3,900	6,000	7,800
Other	3,700	1,700	100	1,100	700
Doctorate					
All degree fields, total	696,000	289,100	302,000	39,800	65,100
White	562,200	228,600	246,500	32,200	54,800
Black	21,300	5,100	10,900	3,200	2,100
Hispanic	19,100	7,300	8,600	1,700	1,500
Asian	91,100	47,400	34,700	2,500	6,400
Other	2,200	600	1,200	200	300

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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
Doctorate — continued					
S&E degree fields, total	580,300	250,100	254,500	18,800	56,900
White	467,400	194,300	209,100	15,800	48,200
Black	12,800	3,800	6,900	700	1,400
Hispanic	15,000	6,100	7,200	500	1,200
Asian	83,100	45,200	30,300	1,800	5,900
Other	1,900	600	900	100	300
Sciences, total	482,000	189,600	225,400	18,100	49,000
White	400,400	155,800	187,300	15,200	42,200
Black	11,400	3,100	6,300	700	1,300
Hispanic	12,900	4,800	6,600	500	1,100
Asian	55,500	25,300	24,300	1,600	4,200
Other	1,800	600	900	100	200
Computer/math sciences, total	36,900	13,100	21,000	1,100	1,600
White	28,200	9,700	16,500	600	1,400
Black	500	100	300	S	S
Hispanic	800	200	600	S	S
Asian	7,300	3,100	3,600	400	200
Other	S	S	S	S	S
Life/related sciences, total	162,500	54,200	85,500	5,600	17,100
White	131,600	42,600	69,800	4,900	14,400
Black	3,700	1,100	2,100	100	500
Hispanic	5,300	2,200	2,700	100	300
Asian	21,400	8,300	10,700	500	1,900
Other	500	100	200	S	100
Physical/related sciences, total	122,200	62,700	42,700	3,500	13,300
White	98,900	49,200	35,300	2,900	11,500
Black	1,600	600	700	100	200
Hispanic	2,400	1,100	1,000	S	300
Asian	19,000	11,700	5,600	400	1,300
Other	400	200	100	S	S
Social/related sciences, total	160,500	59,500	76,100	7,900	16,900
White	141,700	54,300	65,700	6,800	15,000
Black	5,600	1,400	3,200	400	600
Hispanic	4,400	1,300	2,400	300	400
Asian	7,800	2,300	4,400	300	900
Other	900	300	500	100	100
Engineering, total	98,200	60,500	29,100	700	7,900
White	66,900	38,500	21,900	600	6,000
Black	1,400	700	600	S	100
Hispanic	2,200	1,400	600	S	100
Asian	27,600	19,900	5,900	100	1,600
Other	100	S	100	S	S

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

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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
Doctorate — continued					
Non-S&E degree fields, total	115,800	39,000	47,500	21,000	8,300
White	94,900	34,400	37,400	16,500	6,600
Black	8,500	1,300	4,000	2,500	700
Hispanic	4,100	1,100	1,400	1,200	400
Asian	8,000	2,200	4,500	800	600
Other	300	S	200	100	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)