

Table D-4. U.S. scientists and engineers, by highest degree attained, broad occupation, race/ethnicity, and employment status: 1993

Highest degree, occupation, 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 occupations, total²	11,578,200	9,793,500	8,793,000	1,000,500	318,200	1,466,500	825,200	641,400
White	9,871,500	8,303,300	7,437,100	866,100	251,600	1,316,600	768,600	548,000
Black	573,200	503,100	464,200	38,900	20,200	49,900	28,300	21,600
Hispanic	350,400	306,800	280,300	26,500	12,000	31,700	9,700	21,900
Asian	748,100	650,800	584,800	65,900	32,600	64,800	16,800	47,900
Other	35,000	29,600	26,500	3,100	1,800	3,600	1,800	1,800
S&E occupations, total	3,786,100	3,303,400	3,019,400	284,000	87,900	394,800	266,400	128,400
White	3,204,200	2,777,500	2,537,500	240,000	67,900	358,800	252,900	105,900
Black	131,500	119,400	110,900	8,500	3,400	8,600	4,400	4,200
Hispanic	107,300	97,200	90,700	6,500	3,500	6,600	2,800	3,800
Asian	332,000	299,300	271,100	28,200	12,500	20,300	6,100	14,200
Other	11,000	10,000	9,200	800	500	500	200	300
Scientists, total	2,140,900	1,912,300	1,691,400	220,900	38,600	190,000	93,800	96,200
White	1,809,300	1,612,100	1,424,500	187,600	29,300	167,900	87,700	80,200
Black	87,400	79,800	72,400	7,400	2,000	5,700	2,900	2,800
Hispanic	60,200	53,800	48,700	5,100	2,100	4,300	1,100	3,200
Asian	177,300	160,500	140,400	20,200	5,000	11,800	2,100	9,700
Other	6,700	6,100	5,400	600	300	300	S	200
Computer/math scientists, total	1,065,900	991,500	917,500	74,000	19,400	55,000	20,500	34,500
White	890,700	827,700	765,000	62,700	14,500	48,500	18,600	29,900
Black	47,200	44,500	42,000	2,400	1,200	1,500	900	700
Hispanic	28,600	26,300	24,900	1,400	900	1,300	300	1,000
Asian	96,800	90,600	83,300	7,300	2,700	3,600	700	2,900
Other	2,500	2,400	2,200	200	100	S	S	S
Life/related scientists, total ..	379,000	322,300	286,600	35,700	5,700	51,000	23,100	27,900
White	317,400	269,300	239,700	29,500	4,200	43,900	21,400	22,400
Black	12,600	10,400	9,300	1,100	S	2,200	900	1,300
Hispanic	11,300	10,100	9,300	800	300	900	200	700
Asian	36,400	31,300	27,100	4,200	1,100	3,900	500	3,400
Other	1,300	1,100	1,100	S	S	100	S	100
Physical/related scientists, total	339,500	280,900	247,900	33,100	8,200	50,400	33,400	16,900
White	289,800	237,600	211,000	26,600	6,700	45,600	32,000	13,500
Black	9,100	8,000	7,400	700	200	800	600	300
Hispanic	8,600	7,100	6,200	900	500	1,000	200	800
Asian	30,800	27,200	22,500	4,700	700	2,900	600	2,200
Other	1,100	1,000	800	200	100	100	S	100
Social/related scientists, total	356,600	317,600	239,500	78,100	5,300	33,700	16,900	16,900
White	311,400	277,500	208,800	68,700	3,900	30,000	15,700	14,300
Black	18,600	16,800	13,700	3,200	600	1,200	600	600
Hispanic	11,700	10,300	8,300	2,000	300	1,100	400	700
Asian	13,300	11,400	7,400	4,000	400	1,500	200	1,200
Other	1,700	1,600	1,300	200	200	S	S	S

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

Table D-4. U.S. scientists and engineers, by highest degree attained, broad occupation, race/ethnicity, and employment status: 1993

Highest degree, occupation, 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								
Engineers, total	1,645,100	1,391,100	1,328,000	63,100	49,300	204,800	172,600	32,200
White	1,394,900	1,165,400	1,113,000	52,400	38,600	190,900	165,100	25,800
Black	44,100	39,700	38,500	1,100	1,500	3,000	1,600	1,400
Hispanic	47,100	43,400	42,000	1,400	1,400	2,300	1,700	600
Asian	154,700	138,800	130,700	8,000	7,500	8,400	4,000	4,400
Other	4,300	3,900	3,800	100	200	200	200	100
Non-S&E occupations, total	7,792,100	6,490,100	5,773,600	716,600	230,300	1,071,700	558,800	512,900
White	6,667,200	5,525,800	4,899,600	626,200	183,600	957,800	515,700	442,100
Black	441,700	383,700	353,300	30,400	16,800	41,300	23,900	17,400
Hispanic	243,100	209,600	189,600	19,900	8,500	25,000	6,900	18,100
Asian	416,100	351,500	313,700	37,800	20,100	44,500	10,800	33,700
Other	24,000	19,600	17,300	2,300	1,300	3,100	1,600	1,600
Managers/administrators	2,296,500	1,994,400	1,908,900	85,500	47,100	255,000	183,300	71,700
White	2,006,200	1,731,100	1,654,500	76,600	39,300	235,900	172,300	63,500
Black	113,300	101,800	99,000	2,700	2,900	8,600	6,600	2,000
Hispanic	64,700	58,500	56,600	1,900	1,700	4,500	1,700	2,800
Asian	105,300	97,000	93,100	3,900	2,700	5,600	2,400	3,100
Other	7,000	6,100	5,600	400	400	500	300	200
Other non-S&E occupations ..	5,495,600	4,495,700	3,864,700	631,000	183,100	816,800	375,500	441,200
White	4,661,000	3,794,700	3,245,100	549,600	144,400	722,000	343,400	378,500
Black	328,400	281,900	254,300	27,700	13,800	32,700	17,200	15,400
Hispanic	178,400	151,100	133,000	18,000	6,800	20,600	5,200	15,300
Asian	310,800	254,500	220,600	33,900	17,300	38,900	8,300	30,600
Other	17,000	13,500	11,600	1,900	800	2,600	1,300	1,300
Bachelor's								
All occupations, total²	6,948,800	5,727,200	5,110,700	616,500	222,900	998,700	522,600	476,100
White	5,943,700	4,866,300	4,330,800	535,500	177,100	900,200	490,500	409,700
Black	366,800	320,100	292,800	27,300	15,100	31,500	14,400	17,200
Hispanic	222,600	191,500	174,100	17,500	8,600	22,400	5,500	16,900
Asian	393,500	330,900	296,700	34,200	20,700	42,000	11,000	31,000
Other	22,300	18,400	16,300	2,000	1,400	2,500	1,200	1,300
S&E occupations, total	2,293,600	1,980,300	1,837,600	142,700	56,100	257,200	177,500	79,700
White	1,979,800	1,700,100	1,576,600	123,500	44,400	235,300	169,200	66,100
Black	92,800	83,400	78,600	4,800	2,500	7,000	3,400	3,600
Hispanic	69,100	62,600	58,800	3,800	2,300	4,200	1,500	2,700
Asian	144,500	127,600	117,600	10,000	6,500	10,400	3,300	7,100
Other	7,300	6,600	6,000	600	500	300	200	100
Scientists, total	1,122,700	1,007,000	904,700	102,300	18,400	97,300	41,400	55,900
White	957,900	859,100	770,900	88,200	13,800	84,900	38,500	46,400
Black	57,500	52,000	47,900	4,000	1,400	4,200	1,900	2,300
Hispanic	35,100	31,100	28,400	2,800	1,200	2,800	500	2,300
Asian	68,000	61,000	54,200	6,800	1,700	5,300	500	4,800
Other	4,200	3,800	3,300	500	300	100	S	100

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

Table D-4. U.S. scientists and engineers, by highest degree attained, broad occupation, race/ethnicity, and employment status: 1993

Highest degree, occupation, 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								
Computer/math scientists,								
total	720,300	676,200	630,900	45,300	10,300	33,800	10,400	23,400
White	612,500	574,800	535,600	39,300	7,700	30,000	9,300	20,700
Black	36,500	34,500	32,700	1,800	900	1,200	600	600
Hispanic	21,200	19,800	18,700	1,100	400	1,000	200	800
Asian	48,100	45,300	42,300	3,000	1,200	1,600	300	1,300
Other	2,000	1,900	1,700	200	100	S	S	S
Life/related scientists, total ..	159,900	131,600	113,800	17,800	2,600	25,700	8,700	17,000
White	137,500	114,200	98,600	15,600	2,100	21,200	8,000	13,300
Black	7,500	5,800	5,100	700	S	1,800	600	1,100
Hispanic	5,800	4,900	4,400	500	200	700	100	600
Asian	8,300	6,100	5,100	1,000	200	2,000	S	2,000
Other	700	700	700	S	S	S	S	S
Physical/related scientists,								
total	163,200	130,700	114,200	16,400	3,300	29,200	20,000	9,300
White	142,600	113,500	99,600	13,900	2,500	26,500	19,100	7,400
Black	6,500	5,700	5,300	400	100	700	500	100
Hispanic	4,500	3,500	3,000	400	400	600	100	500
Asian	8,900	7,300	5,700	1,600	200	1,400	200	1,100
Other	800	700	500	200	100	100	S	100
Social/related scientists,								
total	79,300	68,500	45,800	22,700	2,200	8,600	2,400	6,200
White	65,300	56,600	37,200	19,400	1,500	7,200	2,100	5,100
Black	7,000	6,000	4,900	1,100	400	600	100	400
Hispanic	3,600	3,000	2,200	700	200	500	200	300
Asian	2,700	2,300	1,100	1,200	S	400	S	400
Other	700	600	400	200	100	S	S	S
Engineers, total	1,170,900	973,300	932,900	40,400	37,700	159,900	136,100	23,800
White	1,021,900	841,000	805,700	35,300	30,600	150,400	130,700	19,700
Black	35,300	31,400	30,700	700	1,100	2,700	1,400	1,300
Hispanic	34,000	31,500	30,500	1,100	1,100	1,400	1,000	400
Asian	76,500	66,600	63,400	3,300	4,800	5,100	2,800	2,300
Other	3,200	2,700	2,700	100	200	200	200	100
Non-S&E occupations, total	4,655,200	3,746,900	3,273,100	473,800	166,800	741,500	345,100	396,400
White	3,963,900	3,166,200	2,754,300	411,900	132,700	664,900	321,400	343,600
Black	274,000	236,700	214,100	22,600	12,700	24,600	11,000	13,600
Hispanic	153,400	128,900	115,200	13,600	6,300	18,200	4,000	14,200
Asian	249,000	203,300	179,100	24,100	14,200	31,600	7,700	23,900
Other	14,900	11,800	10,300	1,500	900	2,200	1,100	1,200
Managers/administrators	1,340,300	1,134,700	1,085,300	49,500	30,200	175,400	125,000	50,400
White	1,177,700	989,300	945,100	44,200	25,400	163,100	118,300	44,800
Black	64,200	57,100	55,300	1,700	2,200	4,900	3,400	1,500
Hispanic	40,100	35,800	34,600	1,200	1,100	3,200	1,000	2,100
Asian	54,100	48,900	46,700	2,100	1,400	3,800	2,000	1,800
Other	4,200	3,700	3,400	300	100	400	200	200

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

Table D-4. U.S. scientists and engineers, by highest degree attained, broad occupation, race/ethnicity, and employment status: 1993

Highest degree, occupation, 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								
Other non-S&E occupations ..	3,314,800	2,612,200	2,187,900	424,300	136,600	566,100	220,100	346,000
White	2,786,100	2,176,900	1,809,100	367,800	107,400	501,800	203,100	298,700
Black	209,800	179,600	158,800	20,900	10,500	19,600	7,600	12,100
Hispanic	113,300	93,100	80,600	12,400	5,200	15,000	2,900	12,100
Asian	194,900	154,400	132,400	22,000	12,800	27,800	5,700	22,100
Other	10,700	8,100	6,900	1,200	800	1,800	800	1,000
Master's								
All occupations, total²	3,002,400	2,575,600	2,288,400	287,200	73,800	353,100	221,500	131,600
White	2,526,400	2,155,400	1,910,300	245,100	58,200	312,800	203,000	109,800
Black	148,100	129,400	119,700	9,600	3,700	15,100	11,700	3,400
Hispanic	82,200	73,100	67,300	5,800	2,500	6,600	2,700	3,900
Asian	237,600	210,700	184,600	26,100	9,300	17,600	3,600	14,000
Other	8,100	7,000	6,400	600	100	1,000	500	500
S&E occupations, total	1,013,600	891,300	781,100	110,200	25,200	97,200	57,200	40,000
White	831,000	725,900	637,000	88,900	18,200	86,900	54,100	32,800
Black	28,100	26,000	22,700	3,300	900	1,200	800	400
Hispanic	26,900	24,200	22,000	2,200	900	1,800	800	1,000
Asian	125,600	113,300	97,700	15,600	5,200	7,100	1,500	5,600
Other	2,000	1,900	1,700	200	S	200	S	200
Scientists, total	615,600	541,400	450,500	90,900	15,000	59,200	26,500	32,700
White	513,000	449,400	374,500	74,800	11,100	52,500	24,800	27,700
Black	20,400	18,800	15,800	3,100	500	1,000	700	300
Hispanic	15,300	13,500	11,700	1,900	700	1,100	300	800
Asian	65,900	58,900	47,800	11,100	2,700	4,400	700	3,600
Other	1,000	800	700	100	S	200	S	200
Computer/math scientists, total	290,100	263,600	237,900	25,700	8,300	18,200	7,700	10,500
White	233,900	212,100	191,300	20,700	6,200	15,700	7,100	8,600
Black	8,900	8,300	7,700	600	300	300	200	100
Hispanic	6,000	5,300	5,000	300	500	200	S	200
Asian	40,900	37,600	33,600	4,000	1,300	1,900	400	1,500
Other	400	300	300	S	S	S	S	S
Life/related scientists, total ..	85,100	70,400	59,200	11,200	1,800	12,900	5,300	7,600
White	70,000	57,400	49,100	8,300	1,100	11,600	4,900	6,700
Black	3,000	2,700	2,400	400	S	200	200	S
Hispanic	2,000	1,900	1,600	300	S	100	100	100
Asian	9,900	8,300	6,100	2,200	600	900	100	800
Other	100	100	100	S	S	100	S	100
Physical/related scientists, total	87,400	72,600	60,100	12,400	2,900	11,900	6,000	6,000
White	74,000	61,100	51,700	9,300	2,400	10,600	5,700	4,900
Black	1,400	1,200	900	300	100	100	S	100
Hispanic	2,200	1,900	1,600	300	100	300	100	200
Asian	9,500	8,200	5,700	2,500	300	900	200	700
Other	200	100	100	S	S	S	S	S

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

Table D-4. U.S. scientists and engineers, by highest degree attained, broad occupation, race/ethnicity, and employment status: 1993

Highest degree, occupation, 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								
Social/related scientists, total	153,100	134,900	93,300	41,600	2,000	16,200	7,600	8,600
White	135,000	118,800	82,400	36,400	1,400	14,700	7,200	7,500
Black	7,200	6,600	4,800	1,800	100	400	300	100
Hispanic	5,000	4,400	3,500	900	100	500	100	400
Asian	5,600	4,700	2,200	2,400	400	600	S	600
Other	300	300	300	S	S	S	S	S
Engineers, total	398,000	349,900	330,600	19,200	10,200	38,000	30,700	7,300
White	318,000	276,600	262,500	14,100	7,100	34,300	29,300	5,100
Black	7,700	7,200	6,900	300	400	200	100	100
Hispanic	11,600	10,700	10,400	300	200	700	500	200
Asian	59,700	54,400	49,900	4,500	2,500	2,800	800	2,000
Other	1,000	1,000	1,000	100	S	S	S	S
Non-S&E occupations, total	1,988,800	1,684,300	1,507,200	177,000	48,600	255,900	164,300	91,600
White	1,695,400	1,429,500	1,273,300	156,200	40,000	225,900	148,900	77,000
Black	120,000	103,300	97,100	6,300	2,800	13,900	10,900	3,000
Hispanic	55,300	48,800	45,200	3,600	1,600	4,900	2,000	2,900
Asian	112,000	97,500	87,000	10,500	4,100	10,400	2,000	8,400
Other	6,000	5,100	4,700	400	100	800	500	300
Managers/administrators	775,900	693,200	663,400	29,800	13,800	68,800	49,200	19,600
White	672,800	599,000	572,000	27,000	11,300	62,500	45,400	17,100
Black	40,000	35,700	34,700	1,000	800	3,500	3,100	500
Hispanic	20,400	18,700	18,200	500	600	1,100	400	700
Asian	40,700	38,100	36,700	1,400	1,000	1,600	300	1,300
Other	1,900	1,700	1,700	S	100	100	S	100
Other non-S&E occupations	1,212,900	991,100	843,800	147,200	34,800	187,100	115,000	72,000
White	1,022,600	830,500	701,300	129,200	28,700	163,400	103,500	59,900
Black	80,000	67,600	62,300	5,300	2,000	10,400	7,800	2,600
Hispanic	34,900	30,100	27,000	3,100	1,000	3,800	1,500	2,200
Asian	71,200	59,400	50,200	9,100	3,100	8,800	1,700	7,100
Other	4,100	3,400	3,000	400	S	700	500	300
Doctorate								
All occupations, total ²	706,100	634,800	590,400	44,300	11,200	60,100	47,200	13,000
White	583,400	520,800	481,900	38,900	8,900	53,700	43,200	10,500
Black	22,200	20,500	19,900	600	200	1,600	1,000	600
Hispanic	18,800	16,800	15,400	1,400	500	1,500	1,200	300
Asian	79,200	74,300	71,100	3,200	1,600	3,300	1,700	1,600
Other	2,500	2,400	2,100	300	100	100	100	S
S&E occupations, total	439,400	395,600	368,500	27,100	6,500	37,300	29,700	7,700
White	360,300	321,300	297,300	24,000	5,200	33,800	27,600	6,200
Black	9,400	9,000	8,500	400	100	400	100	200
Hispanic	10,000	9,100	8,500	500	300	700	600	100
Asian	58,200	54,800	52,800	2,000	900	2,500	1,300	1,200
Other	1,500	1,400	1,400	S	100	S	S	S

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

Table D-4. U.S. scientists and engineers, by highest degree attained, broad occupation, race/ethnicity, and employment status: 1993

Highest degree, occupation, 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								
Scientists, total	367,100	330,500	306,700	23,800	5,200	31,400	24,400	6,900
White	308,800	275,900	254,700	21,200	4,300	28,600	23,000	5,600
Black	8,400	8,000	7,700	300	100	300	100	200
Hispanic	8,600	8,000	7,500	500	200	500	400	100
Asian	39,900	37,400	35,600	1,800	600	1,900	900	1,100
Other	1,400	1,300	1,300	S	S	S	S	S
Computer/math scientists, total	52,400	48,700	45,800	2,900	700	2,900	2,300	700
White	41,800	38,500	35,900	2,500	600	2,700	2,000	600
Black	1,300	1,200	1,200	S	S	S	S	S
Hispanic	1,400	1,300	1,200	100	S	200	200	S
Asian	7,700	7,600	7,300	300	100	100	100	S
Other	200	200	100	S	S	S	S	S
Life/related scientists, total ..	111,400	98,100	93,600	4,500	1,400	11,900	9,000	2,900
White	91,600	79,900	76,100	3,800	1,100	10,600	8,500	2,100
Black	1,700	1,500	1,500	100	S	200	100	100
Hispanic	2,500	2,400	2,400	S	100	100	100	S
Asian	15,200	13,900	13,400	500	300	1,000	400	600
Other	300	300	300	S	S	S	S	S
Physical/related scientists, total	87,800	77,000	72,900	4,100	2,000	8,800	7,100	1,700
White	72,200	62,400	59,000	3,400	1,700	8,100	6,800	1,200
Black	1,200	1,100	1,100	S	S	S	S	S
Hispanic	1,900	1,700	1,600	100	100	100	100	S
Asian	12,300	11,600	11,000	700	200	600	200	400
Other	200	200	200	S	S	S	S	S
Social/related scientists, total	115,600	106,700	94,400	12,400	1,100	7,800	6,000	1,800
White	103,300	95,100	83,600	11,500	900	7,300	5,700	1,600
Black	4,200	4,100	3,800	300	S	100	S	100
Hispanic	2,800	2,600	2,400	300	S	100	100	S
Asian	4,600	4,300	3,900	300	100	300	200	100
Other	700	700	700	S	S	S	S	S
Engineers, total	72,300	65,000	61,800	3,200	1,300	6,000	5,200	700
White	51,500	45,400	42,600	2,800	900	5,200	4,600	600
Black	1,000	1,000	900	100	S	S	S	S
Hispanic	1,400	1,100	1,000	100	100	200	200	S
Asian	18,300	17,500	17,200	300	300	500	400	100
Other	100	100	100	S	S	S	S	S
Non-S&E occupations, total	266,700	239,200	222,000	17,300	4,700	22,800	17,500	5,300
White	223,000	199,500	184,700	14,800	3,700	19,900	15,600	4,300
Black	12,800	11,500	11,300	200	100	1,200	900	300
Hispanic	8,800	7,800	6,900	900	200	800	600	200
Asian	21,100	19,500	18,300	1,200	800	900	400	400
Other	1,000	1,000	700	200	S	S	S	S

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

Table D-4. U.S. scientists and engineers, by highest degree attained, broad occupation, race/ethnicity, and employment status: 1993

Highest degree, occupation, 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								
Managers/administrators	128,500	119,000	115,000	4,000	1,700	7,800	6,700	1,100
White	110,900	101,900	98,500	3,300	1,600	7,500	6,500	1,000
Black	5,300	5,200	5,200	S	S	S	S	S
Hispanic	2,600	2,500	2,300	200	S	100	100	S
Asian	9,100	8,800	8,500	300	100	100	100	S
Other	600	600	400	200	S	S	S	S
Other non-S&E occupations ..	138,200	120,200	107,000	13,200	3,000	15,000	10,800	4,200
White	112,100	97,600	86,200	11,500	2,100	12,400	9,100	3,300
Black	7,500	6,300	6,100	200	100	1,200	900	300
Hispanic	6,200	5,300	4,600	700	200	700	500	200
Asian	12,000	10,700	9,800	900	600	700	400	400
Other	400	400	300	S	S	S	S	S

1 Includes professional degrees

2 Total excludes 37,000 individuals who reported never having worked. For unemployed individuals, occupation is for their previous reported job.

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.

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)