

Table D-10. U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and age: 1993

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
All degree levels¹						
All occupations, total²	11,578,200	1,509,800	3,411,700	3,435,200	1,697,100	1,524,400
White	9,871,500	1,237,200	2,820,800	2,946,200	1,464,900	1,402,400
Black	573,200	88,700	181,400	170,500	79,300	53,300
Hispanic	350,400	60,500	134,200	92,800	39,300	23,600
Asian	748,100	119,900	264,400	215,000	107,000	41,900
Other	35,000	3,600	10,900	10,800	6,500	3,100
S&E occupations, total	3,786,100	540,100	1,289,200	973,900	508,900	474,000
White	3,204,200	438,500	1,055,500	830,000	436,700	443,500
Black	131,500	25,600	51,800	33,400	12,900	7,700
Hispanic	107,300	20,500	45,600	22,800	12,200	6,200
Asian	332,000	53,800	132,200	85,000	45,100	15,900
Other	11,000	1,800	4,100	2,500	2,100	600
Scientists, total	2,140,900	317,700	746,300	606,200	279,500	191,300
White	1,809,300	257,200	604,600	527,000	244,500	176,100
Black	87,400	17,700	33,100	22,700	8,900	5,000
Hispanic	60,200	11,800	25,500	13,500	6,800	2,700
Asian	177,300	29,800	80,600	41,500	18,200	7,100
Other	6,700	1,300	2,400	1,500	1,100	300
Computer/math scientists, total	1,065,900	153,600	429,600	312,100	123,700	47,000
White	890,700	122,900	347,100	270,000	108,000	42,800
Black	47,200	9,000	20,600	12,000	3,900	1,700
Hispanic	28,600	4,800	13,200	6,700	3,500	400
Asian	96,800	16,400	47,500	23,100	7,800	2,000
Other	2,500	400	1,200	400	400	100
Life/related scientists, total	379,000	61,200	123,500	101,500	50,800	41,900
White	317,400	48,300	99,700	87,300	43,700	38,200
Black	12,600	3,400	3,800	2,900	1,200	1,300
Hispanic	11,300	3,100	4,100	2,300	1,100	700
Asian	36,400	6,100	15,200	8,700	4,700	1,600
Other	1,300	200	700	300	100	100
Physical/related scientists, total ...	339,500	51,800	106,500	76,000	47,600	57,600
White	289,800	43,200	86,600	66,000	40,100	54,000
Black	9,100	1,900	3,500	1,500	1,300	800
Hispanic	8,600	1,400	4,200	1,300	1,200	500
Asian	30,800	4,800	11,900	6,900	4,900	2,300
Other	1,100	400	300	200	100	100
Social/related scientists, total	356,600	51,100	86,800	116,600	57,400	44,800
White	311,400	42,700	71,200	103,600	52,700	41,200
Black	18,600	3,300	5,300	6,300	2,400	1,200
Hispanic	11,700	2,400	4,000	3,100	1,100	1,100
Asian	13,300	2,400	6,000	2,900	700	1,200
Other	1,700	300	200	700	500	100

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

Table D-10. U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and age: 1993

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
All degree levels¹ — continued						
Engineers, total	1,645,100	222,500	542,900	367,700	229,400	282,700
White	1,394,900	181,400	450,900	303,100	192,200	267,400
Black	44,100	7,900	18,600	10,700	4,000	2,700
Hispanic	47,100	8,700	20,100	9,400	5,400	3,500
Asian	154,700	24,000	51,600	43,500	26,800	8,800
Other	4,300	500	1,600	900	1,000	300
Non-S&E occupations, total	7,792,100	969,700	2,122,500	2,461,400	1,188,100	1,050,400
White	6,667,200	798,700	1,765,200	2,116,200	1,028,200	959,000
Black	441,700	63,100	129,600	137,100	66,400	45,600
Hispanic	243,100	40,000	88,600	69,900	27,100	17,400
Asian	416,100	66,100	132,200	129,900	61,900	25,900
Other	24,000	1,900	6,900	8,300	4,400	2,500
Managers/administrators	2,296,500	165,700	556,600	802,500	441,000	330,800
White	2,006,200	139,500	472,500	694,600	392,000	307,600
Black	113,300	9,100	31,800	41,200	20,100	11,200
Hispanic	64,700	5,700	23,000	22,400	9,400	4,300
Asian	105,300	10,900	27,500	41,400	18,600	6,900
Other	7,000	500	1,900	2,900	900	900
Other non-S&E occupations	5,495,600	804,100	1,565,900	1,658,900	747,200	719,600
White	4,661,000	659,200	1,292,700	1,421,500	636,200	651,400
Black	328,400	54,000	97,800	95,900	46,300	34,400
Hispanic	178,400	34,300	65,600	47,600	17,800	13,100
Asian	310,800	55,100	104,700	88,600	43,300	19,100
Other	17,000	1,400	5,000	5,300	3,600	1,700
Bachelor's						
All occupations, total²	6,948,800	1,286,000	2,125,800	1,815,400	818,800	902,900
White	5,943,700	1,061,600	1,778,800	1,554,500	704,800	843,900
Black	366,800	80,600	127,000	97,000	38,600	23,600
Hispanic	222,600	52,100	86,100	51,600	21,000	11,700
Asian	393,500	88,600	126,400	105,300	50,800	22,400
Other	22,300	3,100	7,500	6,900	3,500	1,300
S&E occupations, total	2,293,600	441,300	816,500	505,400	245,600	284,800
White	1,979,800	364,900	695,500	437,600	211,800	270,100
Black	92,800	22,600	38,700	19,500	7,700	4,400
Hispanic	69,100	17,500	30,100	12,000	6,400	3,100
Asian	144,500	34,800	49,400	34,700	18,500	7,100
Other	7,300	1,500	2,800	1,600	1,200	200
Scientists, total	1,122,700	257,200	431,000	267,800	98,800	67,900
White	957,900	211,800	362,400	233,600	86,600	63,400
Black	57,500	15,500	23,500	12,000	4,400	2,100
Hispanic	35,100	9,800	15,600	6,100	2,800	800
Asian	68,000	19,100	27,700	15,200	4,600	1,500
Other	4,200	1,000	1,800	900	500	S

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

Table D-10. U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and age: 1993

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
Bachelor's — continued						
Computer/math scientists, total	720,300	129,900	311,400	192,000	65,900	21,100
White	612,500	106,900	260,100	167,400	58,700	19,400
Black	36,500	8,100	17,200	8,100	2,400	700
Hispanic	21,200	4,000	10,700	4,400	1,900	200
Asian	48,100	10,500	22,400	11,700	2,500	900
Other	2,000	300	1,000	400	300	S
Life/related scientists, total	159,900	50,600	50,800	32,000	13,600	12,900
White	137,500	40,600	44,600	28,400	12,200	11,800
Black	7,500	2,900	1,900	1,300	600	900
Hispanic	5,800	2,900	1,600	900	300	200
Asian	8,300	4,200	2,300	1,300	500	S
Other	700	100	500	100	S	S
Physical/related scientists, total ...	163,200	41,000	50,500	28,200	15,300	28,200
White	142,600	34,900	43,500	24,600	12,400	27,200
Black	6,500	1,800	2,400	900	1,000	400
Hispanic	4,500	1,200	2,300	400	400	200
Asian	8,900	2,800	2,100	2,100	1,500	400
Other	800	400	200	200	100	S
Social/related scientists, total	79,300	35,700	18,300	15,600	4,000	5,700
White	65,300	29,400	14,300	13,200	3,300	5,000
Black	7,000	2,700	2,100	1,700	400	100
Hispanic	3,600	1,700	1,000	400	100	300
Asian	2,700	1,600	800	100	S	200
Other	700	200	100	200	200	S
Engineers, total	1,170,900	184,100	385,500	237,500	146,900	216,900
White	1,021,900	153,000	333,100	204,000	125,200	206,600
Black	35,300	7,100	15,100	7,500	3,300	2,200
Hispanic	34,000	7,700	14,500	5,900	3,600	2,300
Asian	76,500	15,800	21,800	19,500	13,900	5,600
Other	3,200	500	1,000	800	800	200
Non-S&E occupations, total	4,655,200	844,700	1,309,300	1,310,000	573,200	618,000
White	3,963,900	696,700	1,083,400	1,116,900	493,000	573,800
Black	274,000	58,000	88,300	77,500	30,900	19,200
Hispanic	153,400	34,600	56,000	39,600	14,600	8,600
Asian	249,000	53,800	77,000	70,700	32,300	15,300
Other	14,900	1,600	4,700	5,300	2,200	1,100
Managers/administrators	1,340,300	144,600	352,000	423,200	206,700	213,800
White	1,177,700	122,200	297,900	368,600	186,300	202,800
Black	64,200	8,200	22,900	21,300	7,900	3,900
Hispanic	40,100	4,500	15,600	12,300	5,300	2,500
Asian	54,100	9,300	14,400	19,100	6,900	4,300
Other	4,200	500	1,200	1,900	300	300

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

Table D-10. U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and age: 1993

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
Bachelor's — continued						
Other non-S&E occupations	3,314,800	700,000	957,400	886,800	366,400	404,200
White	2,786,100	574,600	785,500	748,300	306,700	371,100
Black	209,800	49,800	65,400	56,200	23,000	15,300
Hispanic	113,300	30,100	40,400	27,400	9,400	6,100
Asian	194,900	44,500	62,600	51,500	25,400	10,900
Other	10,700	1,100	3,500	3,400	1,900	800
Master's						
All occupations, total²	3,002,400	169,800	817,000	1,055,700	569,100	390,800
White	2,526,400	132,600	653,900	898,100	490,500	351,200
Black	148,100	5,900	36,300	54,300	29,700	22,100
Hispanic	82,200	5,800	30,300	27,800	11,600	6,700
Asian	237,600	25,200	94,100	73,100	35,300	9,900
Other	8,100	300	2,500	2,500	2,000	800
S&E occupations, total	1,013,600	91,000	345,300	314,700	154,600	107,900
White	831,000	68,400	265,200	265,100	131,900	100,300
Black	28,100	2,700	10,200	9,800	3,300	2,100
Hispanic	26,900	2,600	11,200	7,800	3,600	1,700
Asian	125,600	17,200	57,600	31,600	15,400	3,700
Other	2,000	100	1,100	300	400	100
Scientists, total	615,600	54,600	209,500	205,400	89,700	56,500
White	513,000	41,400	160,800	179,900	78,500	52,400
Black	20,400	1,900	7,000	7,100	2,700	1,600
Hispanic	15,300	1,600	6,100	4,600	2,200	700
Asian	65,900	9,500	35,100	13,600	6,000	1,700
Other	1,000	100	500	200	200	S
Computer/math scientists, total	290,100	22,500	104,100	101,400	43,200	18,800
White	233,900	15,400	77,200	87,100	36,700	17,500
Black	8,900	900	2,900	3,300	1,200	600
Hispanic	6,000	600	2,300	1,800	1,300	S
Asian	40,900	5,500	21,600	9,200	3,900	800
Other	400	S	200	S	100	S
Life/related scientists, total	85,100	8,400	31,600	26,400	11,200	7,500
White	70,000	6,200	24,100	23,100	9,500	7,100
Black	3,000	400	1,200	800	400	100
Hispanic	2,000	200	700	800	300	100
Asian	9,900	1,600	5,500	1,600	1,000	200
Other	100	S	100	S	S	S
Physical/related scientists, total ...	87,400	9,400	30,700	24,500	11,000	11,900
White	74,000	7,300	23,900	22,400	9,600	10,900
Black	1,400	100	700	100	200	200
Hispanic	2,200	200	1,100	500	300	200
Asian	9,500	1,700	4,800	1,500	900	600
Other	200	S	100	S	S	S

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

Table D-10. U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and age: 1993

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
Master's — continued						
Social/related scientists, total	153,100	14,400	43,100	53,000	24,300	18,200
White	135,000	12,500	35,700	47,200	22,700	16,900
Black	7,200	500	2,100	2,900	1,000	700
Hispanic	5,000	600	2,000	1,500	400	400
Asian	5,600	800	3,300	1,200	200	200
Other	300	S	100	200	S	S
Engineers, total	398,000	36,500	135,900	109,300	64,900	51,400
White	318,000	26,900	104,400	85,200	53,400	48,000
Black	7,700	800	3,200	2,700	600	500
Hispanic	11,600	900	5,200	3,200	1,300	1,000
Asian	59,700	7,700	22,500	18,100	9,400	2,000
Other	1,000	S	600	100	200	100
Non-S&E occupations, total	1,988,800	78,700	471,600	741,100	414,500	282,800
White	1,695,400	64,300	388,600	633,000	358,600	250,900
Black	120,000	3,100	26,100	44,500	26,400	20,000
Hispanic	55,300	3,200	19,000	20,000	8,000	5,000
Asian	112,000	8,000	36,500	41,400	19,900	6,200
Other	6,000	200	1,400	2,200	1,600	700
Managers/administrators	775,900	20,500	182,400	308,100	176,200	88,700
White	672,800	16,800	156,000	265,000	155,400	79,600
Black	40,000	900	7,800	16,500	8,700	6,200
Hispanic	20,400	1,200	6,700	8,400	3,000	1,100
Asian	40,700	1,600	11,400	17,300	8,800	1,600
Other	1,900	S	500	900	400	100
Other non-S&E occupations	1,212,900	58,300	289,300	432,900	238,200	194,200
White	1,022,600	47,500	232,700	368,000	203,200	171,300
Black	80,000	2,200	18,300	28,000	17,700	13,800
Hispanic	34,900	2,000	12,300	11,600	5,100	3,900
Asian	71,200	6,400	25,100	24,100	11,100	4,600
Other	4,100	100	900	1,300	1,200	600
Doctorate						
All occupations, total ²	706,100	8,600	151,900	234,600	186,700	124,400
White	583,400	6,000	113,100	195,000	159,000	110,200
Black	22,200	300	4,200	8,600	5,700	3,500
Hispanic	18,800	500	5,000	5,600	4,700	3,000
Asian	79,200	1,700	29,200	24,700	16,700	6,900
Other	2,500	100	300	700	700	700
S&E occupations, total	439,400	7,000	117,800	139,900	101,500	73,300
White	360,300	4,800	87,200	115,800	86,500	66,100
Black	9,400	300	2,600	3,600	1,900	1,000
Hispanic	10,000	400	3,600	2,700	2,100	1,300
Asian	58,200	1,500	24,100	17,400	10,500	4,600
Other	1,500	100	200	500	400	300

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

Table D-10. U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and age: 1993

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
Doctorate — continued						
Scientists, total	367,100	5,200	97,100	119,900	84,400	60,600
White	308,800	3,500	74,500	102,500	73,400	55,000
Black	8,400	200	2,300	3,100	1,800	1,000
Hispanic	8,600	300	3,200	2,300	1,700	1,000
Asian	39,900	1,000	16,900	11,500	7,100	3,400
Other	1,400	100	200	500	400	300
Computer/math scientists, total	52,400	1,200	12,700	17,900	14,200	6,400
White	41,800	500	8,700	14,900	12,100	5,500
Black	1,300	S	300	400	300	300
Hispanic	1,400	200	300	500	300	300
Asian	7,700	500	3,400	2,100	1,400	300
Other	200	S	S	S	S	100
Life/related scientists, total	111,400	1,500	35,300	35,100	22,100	17,400
White	91,600	1,100	26,700	29,300	18,700	15,800
Black	1,700	100	700	500	200	200
Hispanic	2,500	100	1,300	400	500	300
Asian	15,200	200	6,600	4,700	2,600	1,000
Other	300	100	S	100	100	100
Physical/related scientists, total ...	87,800	1,400	25,100	23,300	20,800	17,100
White	72,200	1,000	19,100	19,000	17,600	15,500
Black	1,200	S	300	600	200	100
Hispanic	1,900	100	700	400	500	200
Asian	12,300	300	5,000	3,300	2,500	1,200
Other	200	S	S	100	100	100
Social/related scientists, total	115,600	1,000	24,000	43,600	27,300	19,700
White	103,300	800	20,100	39,200	24,900	18,200
Black	4,200	200	1,000	1,600	1,100	300
Hispanic	2,800	S	900	1,000	500	200
Asian	4,600	S	1,800	1,400	600	800
Other	700	S	100	300	300	100
Engineers, total	72,300	1,800	20,700	20,000	17,100	12,600
White	51,500	1,300	12,700	13,300	13,100	11,100
Black	1,000	S	300	500	100	S
Hispanic	1,400	S	400	400	400	200
Asian	18,300	500	7,300	5,800	3,400	1,200
Other	100	S	S	S	S	S
Non-S&E occupations, total	266,700	1,600	34,100	94,700	85,200	51,100
White	223,000	1,200	25,900	79,300	72,500	44,100
Black	12,800	S	1,500	5,000	3,800	2,500
Hispanic	8,800	200	1,500	2,900	2,500	1,700
Asian	21,100	200	5,000	7,400	6,200	2,300
Other	1,000	S	100	200	200	400

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

Table D-10. U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and age: 1993

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
Doctorate — continued						
Managers/administrators	128,500	100	12,100	48,600	46,800	20,900
White	110,900	100	9,900	41,700	40,600	18,700
Black	5,300	S	300	1,900	2,400	700
Hispanic	2,600	S	300	1,100	700	500
Asian	9,100	S	1,500	3,800	2,900	800
Other	600	S	100	100	200	200
Other non-S&E occupations	138,200	1,500	22,000	46,100	38,400	30,200
White	112,100	1,200	16,100	37,600	31,900	25,400
Black	7,500	S	1,200	3,100	1,400	1,800
Hispanic	6,200	100	1,100	1,800	1,800	1,300
Asian	12,000	200	3,600	3,500	3,300	1,400
Other	400	S	100	100	S	200

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)