

Table D-10. U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and age: 1997

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	12,512,000	1,688,400	3,048,900	3,696,600	2,339,400	1,738,800
White	10,557,900	1,334,900	2,488,900	3,139,000	2,025,600	1,569,400
Black	640,200	101,200	161,200	199,600	107,400	70,800
Hispanic	422,200	89,600	134,400	112,400	55,600	30,300
Asian	849,400	155,100	254,200	233,800	142,300	63,900
Other	42,400	7,700	10,200	11,800	8,400	4,200
S&E occupations, total	3,899,000	520,200	1,145,500	1,041,800	646,800	544,700
White	3,260,200	404,500	910,700	884,000	563,800	497,200
Black	126,600	24,600	43,900	33,300	15,400	9,300
Hispanic	114,900	22,100	45,600	24,900	13,100	9,300
Asian	384,700	66,600	141,700	95,900	52,900	27,700
Other	12,600	2,400	3,600	3,700	1,600	1,300
Scientists, total	2,261,500	324,500	669,100	656,400	384,000	227,400
White	1,881,900	251,900	525,600	559,600	340,900	204,000
Black	88,300	16,800	29,600	23,800	11,000	7,100
Hispanic	62,800	12,300	24,900	14,400	7,100	4,100
Asian	220,400	41,800	87,100	56,000	23,700	11,700
Other	8,100	1,700	1,900	2,700	1,300	500
Computer/math scientists, total	1,129,700	143,200	400,000	347,400	174,000	65,100
White	917,100	105,200	310,000	291,300	153,300	57,300
Black	48,000	8,400	18,100	13,400	5,700	2,300
Hispanic	28,200	4,300	13,500	6,400	2,900	1,000
Asian	133,600	24,900	57,600	35,100	11,600	4,300
Other	2,800	400	700	1,100	400	100
Life/related scientists, total	387,300	65,800	98,900	108,200	67,100	47,200
White	324,000	51,800	77,400	94,400	59,100	41,300
Black	11,400	2,700	2,900	3,000	1,400	1,300
Hispanic	10,700	2,800	3,600	1,500	1,400	1,400
Asian	39,700	8,000	14,300	9,000	5,200	3,100
Other	1,500	500	600	300	100	S
Physical/related scientists, total ...	343,500	49,700	89,300	87,200	56,700	60,500
White	292,100	40,700	72,100	74,600	49,100	55,600
Black	10,000	2,000	3,600	2,100	1,300	1,000
Hispanic	8,800	1,700	3,200	2,400	800	700
Asian	31,400	5,000	10,200	7,700	5,400	3,100
Other	1,200	300	300	400	100	100
Social/related scientists, total	401,000	65,800	80,900	113,600	86,200	54,500
White	348,800	54,200	66,100	99,300	79,400	49,800
Black	18,900	3,700	4,900	5,200	2,700	2,500
Hispanic	15,100	3,500	4,600	4,100	1,900	1,000
Asian	15,700	3,800	5,000	4,200	1,600	1,100
Other	2,500	600	300	800	600	200

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: 1997

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	1,637,500	195,700	476,400	385,300	262,800	317,300
White	1,378,300	152,600	385,100	324,400	223,000	293,200
Black	38,300	7,800	14,400	9,500	4,400	2,200
Hispanic	52,100	9,800	20,700	10,500	6,000	5,200
Asian	164,400	24,800	54,600	39,800	29,100	16,000
Other	4,500	700	1,600	1,100	300	800
Non-S&E occupations, total	8,613,100	1,168,200	1,903,300	2,654,800	1,692,600	1,194,100
White	7,297,700	930,500	1,578,200	2,255,000	1,461,800	1,072,200
Black	513,600	76,500	117,300	166,300	92,000	61,500
Hispanic	307,300	67,400	88,800	87,500	42,500	21,100
Asian	464,700	88,500	112,500	138,000	89,400	36,300
Other	29,800	5,300	6,600	8,100	6,800	3,000
Managers/administrators	2,321,300	136,800	473,800	796,300	566,800	347,600
White	2,006,300	108,000	398,200	682,800	499,600	317,700
Black	126,500	8,600	24,400	48,400	28,800	16,300
Hispanic	68,800	6,600	22,500	23,300	12,700	3,800
Asian	112,800	13,400	27,200	39,600	23,500	9,000
Other	6,800	200	1,400	2,300	2,200	800
Other non-S&E occupations	6,291,800	1,031,400	1,429,600	1,858,500	1,125,800	846,500
White	5,291,300	822,500	1,179,900	1,572,200	962,300	754,500
Black	387,100	67,900	92,900	117,900	63,200	45,200
Hispanic	238,500	60,900	66,300	64,200	29,900	17,300
Asian	351,900	75,100	85,300	98,400	65,900	27,200
Other	23,000	5,100	5,200	5,800	4,600	2,200
Bachelor's						
All occupations, total²	7,456,800	1,420,300	1,907,700	2,048,900	1,112,800	967,000
White	6,314,700	1,131,300	1,587,900	1,745,400	960,600	889,500
Black	399,700	87,400	112,100	119,300	50,200	30,700
Hispanic	272,600	77,100	89,300	64,200	27,600	14,400
Asian	441,200	117,300	112,000	112,400	69,100	30,400
Other	28,700	7,200	6,500	7,700	5,200	2,000
S&E occupations, total	2,252,100	412,300	689,500	548,800	294,500	306,900
White	1,932,200	327,400	579,900	478,600	259,000	287,400
Black	82,100	20,600	29,200	19,600	8,400	4,300
Hispanic	69,300	18,200	29,400	11,800	5,700	4,200
Asian	160,400	43,900	48,900	36,400	20,700	10,500
Other	8,100	2,200	2,200	2,400	700	500
Scientists, total	1,135,500	252,900	371,400	302,400	133,900	74,800
White	960,000	199,000	310,300	263,200	118,900	68,600
Black	53,400	14,000	18,900	12,100	5,800	2,500
Hispanic	33,600	10,400	14,900	5,200	2,100	1,000
Asian	83,700	27,800	26,300	20,300	6,600	2,700
Other	4,800	1,600	1,000	1,600	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: 1997

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	731,900	115,000	274,100	219,800	93,700	29,300
White	615,700	88,800	227,000	189,600	84,300	26,000
Black	35,400	7,400	13,500	9,300	3,800	1,300
Hispanic	19,600	3,600	10,400	4,000	1,300	300
Asian	59,200	14,800	22,800	16,000	4,000	1,600
Other	2,000	400	500	800	300	100
Life/related scientists, total	158,100	54,500	39,200	34,700	17,200	12,700
White	134,300	42,500	33,700	31,600	14,900	11,700
Black	5,700	2,400	1,100	1,100	800	300
Hispanic	5,300	2,500	1,600	100	700	400
Asian	11,800	6,500	2,500	1,700	800	300
Other	1,000	500	400	200	S	S
Physical/related scientists, total ...	163,300	40,800	42,600	35,900	17,800	26,200
White	142,000	33,500	37,000	31,900	14,900	24,800
Black	6,700	1,700	2,600	900	900	600
Hispanic	4,500	1,400	1,900	1,000	100	100
Asian	9,600	4,000	1,000	2,000	1,900	700
Other	500	200	100	100	S	100
Social/related scientists, total	82,200	42,700	15,600	12,100	5,300	6,600
White	68,000	34,300	12,600	10,000	4,900	6,200
Black	5,600	2,500	1,800	800	300	300
Hispanic	4,300	2,900	1,100	100	S	200
Asian	3,100	2,500	S	600	S	S
Other	1,300	500	100	500	200	S
Engineers, total	1,116,600	159,400	318,100	246,400	160,600	232,100
White	972,200	128,400	269,600	215,400	140,100	218,800
Black	28,700	6,500	10,300	7,500	2,600	1,800
Hispanic	35,700	7,800	14,400	6,700	3,600	3,300
Asian	76,700	16,100	22,600	16,100	14,100	7,800
Other	3,200	600	1,200	700	300	400
Non-S&E occupations, total	5,204,700	1,008,000	1,218,200	1,500,100	818,300	660,000
White	4,382,400	803,900	1,008,000	1,266,800	701,600	602,100
Black	317,600	66,800	82,900	99,700	41,800	26,400
Hispanic	203,300	58,900	60,000	52,300	22,000	10,100
Asian	280,800	73,400	63,100	75,900	48,400	19,900
Other	20,600	5,000	4,300	5,300	4,500	1,500
Managers/administrators	1,319,600	116,000	300,500	446,400	256,800	199,800
White	1,152,100	91,800	255,400	387,200	230,800	186,900
Black	65,300	7,500	14,800	27,100	9,700	6,200
Hispanic	41,600	5,900	14,600	12,800	6,700	1,700
Asian	56,200	10,600	14,700	18,000	8,100	4,700
Other	4,400	200	900	1,400	1,500	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: 1997

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	3,885,100	892,000	917,700	1,053,700	561,500	460,200
White	3,230,400	712,200	752,600	879,600	470,800	415,200
Black	252,300	59,300	68,100	72,600	32,100	20,300
Hispanic	161,600	53,000	45,300	39,600	15,300	8,400
Asian	224,600	62,800	48,400	57,900	40,300	15,200
Other	16,200	4,800	3,300	3,900	3,000	1,200
Master's						
All occupations, total²	3,311,300	204,800	739,900	1,052,400	817,100	497,100
White	2,756,700	153,200	580,900	880,300	703,200	439,100
Black	176,100	10,700	35,300	59,500	42,100	28,400
Hispanic	99,600	9,200	29,900	32,000	18,900	9,600
Asian	270,000	31,200	91,700	77,600	50,800	18,700
Other	8,800	400	2,100	3,000	2,000	1,300
S&E occupations, total	1,100,000	97,600	326,900	327,600	210,100	137,800
White	883,800	68,800	239,400	272,000	181,300	122,300
Black	33,400	4,000	11,600	9,700	4,600	3,500
Hispanic	31,900	3,800	12,300	8,500	4,700	2,500
Asian	148,100	20,800	62,500	36,500	19,200	9,100
Other	2,800	200	1,000	900	300	400
Scientists, total	671,100	63,500	194,300	212,600	129,800	70,800
White	542,700	45,800	139,500	178,400	115,400	63,600
Black	24,900	2,800	7,900	8,000	3,200	3,100
Hispanic	17,500	1,900	6,600	5,300	2,700	1,000
Asian	84,300	13,000	39,600	20,200	8,300	3,200
Other	1,700	100	600	700	300	S
Computer/math scientists, total	328,500	26,600	108,400	106,900	60,800	25,700
White	249,000	15,200	72,200	86,400	52,300	22,900
Black	11,200	1,000	4,200	3,600	1,500	900
Hispanic	6,600	700	2,700	1,700	1,300	200
Asian	61,100	9,700	29,100	15,000	5,600	1,700
Other	600	S	200	300	100	S
Life/related scientists, total	83,800	8,400	24,400	26,900	16,400	7,700
White	69,900	6,600	18,200	23,700	15,200	6,300
Black	3,300	300	1,000	1,200	100	800
Hispanic	1,700	200	800	300	200	100
Asian	8,600	1,300	4,200	1,700	900	500
Other	200	100	100	S	S	S
Physical/related scientists, total ...	83,300	7,200	22,400	25,700	15,100	13,000
White	70,000	5,800	17,200	21,900	13,400	11,800
Black	1,900	300	600	600	200	200
Hispanic	2,200	300	600	800	200	300
Asian	8,700	800	3,900	2,000	1,300	700
Other	500	S	100	300	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: 1997

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	175,600	21,400	39,200	53,200	37,500	24,400
White	153,800	18,200	32,000	46,400	34,600	22,700
Black	8,500	1,200	2,100	2,600	1,400	1,200
Hispanic	7,000	600	2,400	2,500	1,000	300
Asian	5,900	1,300	2,500	1,500	400	300
Other	500	S	200	100	100	S
Engineers, total	428,900	34,100	132,600	115,000	80,300	67,000
White	341,100	23,000	99,900	93,500	65,900	58,800
Black	8,500	1,300	3,700	1,800	1,500	400
Hispanic	14,400	2,000	5,700	3,200	2,000	1,500
Asian	63,800	7,800	22,900	16,300	10,900	5,900
Other	1,100	S	400	300	S	400
Non-S&E occupations, total	2,211,300	107,200	413,000	724,700	607,000	359,300
White	1,872,900	84,400	341,500	608,400	521,900	316,800
Black	142,600	6,700	23,700	49,800	37,500	24,900
Hispanic	67,700	5,400	17,500	23,500	14,200	7,100
Asian	121,900	10,400	29,200	41,100	31,600	9,600
Other	6,000	300	1,100	2,000	1,800	900
Managers/administrators	826,600	19,700	156,000	290,000	248,100	112,700
White	705,400	15,400	128,700	245,100	215,000	101,100
Black	50,600	900	9,200	18,000	15,200	7,200
Hispanic	23,000	700	6,900	9,000	4,800	1,600
Asian	45,900	2,700	10,900	17,100	12,400	2,700
Other	1,800	S	300	800	600	100
Other non-S&E occupations	1,384,700	87,500	257,000	434,700	358,900	246,600
White	1,167,600	69,000	212,800	363,200	306,900	215,700
Black	92,000	5,900	14,500	31,700	22,200	17,700
Hispanic	44,700	4,700	10,700	14,500	9,400	5,400
Asian	76,100	7,700	18,300	23,900	19,200	6,900
Other	4,300	300	700	1,300	1,200	800
Doctorate						
All occupations, total ²	789,700	10,500	157,300	228,200	236,800	156,900
White	642,800	8,300	112,100	183,500	203,800	135,000
Black	24,500	100	3,400	7,900	7,400	5,800
Hispanic	21,600	S	5,500	6,500	5,800	3,700
Asian	98,100	2,000	35,900	29,600	18,800	11,800
Other	2,700	S	400	700	900	700
S&E occupations, total	511,900	9,300	122,600	151,700	135,900	92,400
White	413,700	7,400	86,600	121,600	117,400	80,800
Black	10,200	100	2,500	3,800	2,300	1,500
Hispanic	12,100	S	3,400	4,100	2,600	1,900
Asian	74,200	1,800	29,800	21,800	13,000	7,900
Other	1,700	S	300	400	600	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: 1997

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
Doctorate — continued						
Scientists, total	422,700	7,200	97,500	128,900	114,200	74,800
White	351,300	6,200	71,500	107,200	100,700	65,700
Black	9,100	S	2,100	3,500	2,000	1,400
Hispanic	10,300	S	3,000	3,500	2,200	1,600
Asian	50,400	900	20,600	14,300	8,900	5,700
Other	1,600	S	300	400	500	300
Computer/math scientists, total	64,800	1,600	15,300	19,200	19,200	9,500
White	48,800	1,100	9,000	14,300	16,500	7,900
Black	1,100	S	100	500	400	100
Hispanic	1,900	S	400	700	300	400
Asian	12,800	500	5,700	3,700	2,000	1,000
Other	200	S	100	S	100	100
Life/related scientists, total	128,400	2,300	33,000	41,000	30,400	21,800
White	105,300	2,000	24,300	34,300	25,900	18,800
Black	1,900	S	600	600	400	200
Hispanic	2,800	S	1,000	800	400	600
Asian	18,000	200	7,100	5,200	3,500	2,100
Other	300	S	100	100	100	S
Physical/related scientists, total ...	96,100	1,700	24,200	25,600	23,800	20,800
White	79,300	1,500	17,800	20,700	20,800	18,600
Black	1,400	S	400	600	200	200
Hispanic	2,100	S	700	600	600	300
Asian	13,100	200	5,400	3,600	2,200	1,700
Other	300	S	100	S	100	100
Social/related scientists, total	133,300	1,700	25,000	43,000	40,800	22,700
White	117,800	1,600	20,400	37,900	37,500	20,400
Black	4,700	S	1,000	1,800	1,000	1,000
Hispanic	3,500	S	1,000	1,300	900	300
Asian	6,500	100	2,500	1,800	1,200	900
Other	800	S	100	200	300	200
Engineers, total	89,200	2,100	25,100	22,800	21,600	17,600
White	62,500	1,200	15,100	14,400	16,700	15,100
Black	1,100	S	400	300	300	100
Hispanic	1,800	S	400	600	400	300
Asian	23,800	900	9,100	7,400	4,100	2,200
Other	100	S	S	S	100	S
Non-S&E occupations, total	277,800	1,100	34,700	76,600	100,900	64,500
White	229,100	900	25,600	61,900	86,400	54,200
Black	14,300	S	800	4,100	5,100	4,300
Hispanic	9,500	S	2,100	2,400	3,200	1,700
Asian	23,900	200	6,100	7,900	5,800	3,900
Other	1,000	S	100	300	300	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: 1997

Highest degree, occupation, and race/ethnicity	S&Es, total	Age range				
		<30	30-39	40-49	50-59	60+
Doctorate — continued						
Managers/administrators	115,300	200	9,500	33,700	48,500	23,400
White	97,000	100	7,300	27,300	42,300	20,000
Black	5,900	S	200	1,600	2,500	1,700
Hispanic	2,500	S	600	1,000	800	100
Asian	9,300	100	1,400	3,800	2,800	1,200
Other	600	S	S	100	100	300
Other non-S&E occupations	162,500	900	25,200	42,800	52,500	41,100
White	132,100	800	18,300	34,700	44,200	34,200
Black	8,400	S	700	2,500	2,600	2,600
Hispanic	7,000	S	1,500	1,400	2,400	1,600
Asian	14,600	100	4,600	4,100	3,100	2,700
Other	400	S	S	200	200	S

1 Includes professional degrees

2 Total excludes 18,700 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 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)