

Table E-5. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and employment sector: 1993

Highest degree, occupation, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
All degree levels¹					
All occupations, total²	9,793,500	6,661,200	906,100	855,300	1,370,900
White	8,303,300	5,761,300	727,600	715,500	1,098,800
Black	503,100	244,200	46,000	79,800	133,100
Hispanic	306,800	187,100	30,200	34,500	55,000
Asian	650,800	452,200	99,000	22,600	77,000
Other	29,600	16,400	3,300	2,900	7,000
S&E occupations, total	3,303,400	2,240,600	472,100	116,000	474,700
White	2,777,500	1,912,700	374,200	100,400	390,200
Black	119,400	67,700	16,600	6,900	28,300
Hispanic	97,200	61,100	15,100	4,200	16,700
Asian	299,300	193,900	63,800	4,200	37,400
Other	10,000	5,300	2,400	200	2,100
Scientists, total	1,912,300	1,145,400	402,900	107,000	257,000
White	1,612,100	978,400	324,400	93,100	216,300
Black	79,800	41,800	14,400	6,300	17,200
Hispanic	53,800	29,200	13,200	4,100	7,300
Asian	160,500	93,900	48,900	3,100	14,600
Other	6,100	2,200	2,000	200	1,600
Computer/math scientists, total ...	991,500	759,600	87,200	39,800	104,900
White	827,700	639,300	69,000	33,900	85,600
Black	44,500	29,200	4,000	2,500	8,800
Hispanic	26,300	19,700	2,100	1,500	3,100
Asian	90,600	70,100	12,000	1,800	6,600
Other	2,400	1,300	200	100	800
Life/related scientists, total	322,300	102,100	140,400	15,200	64,600
White	269,300	87,900	111,100	13,800	56,500
Black	10,400	2,700	4,300	900	2,600
Hispanic	10,100	2,800	5,200	300	1,700
Asian	31,300	8,700	19,000	200	3,400
Other	1,100	S	800	S	300
Physical/related scientists, total ...	280,900	154,900	72,200	9,500	44,300
White	237,600	133,200	57,300	8,100	39,000
Black	8,000	4,700	1,200	400	1,800
Hispanic	7,100	3,500	2,100	700	700
Asian	27,200	13,000	11,400	300	2,600
Other	1,000	500	200	S	300
Social/related scientists, total	317,600	128,800	103,000	42,600	43,200
White	277,500	117,900	87,000	37,400	35,200
Black	16,800	5,400	4,900	2,500	4,100
Hispanic	10,300	3,200	3,700	1,600	1,700
Asian	11,400	2,000	6,600	800	2,000
Other	1,600	300	800	200	300

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

Table E-5. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and employment sector: 1993

Highest degree, occupation, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
All degree levels¹ — continued					
Engineers, total	1,391,100	1,095,200	69,200	9,000	217,700
White	1,165,400	934,300	49,900	7,300	173,900
Black	39,700	25,900	2,200	600	11,100
Hispanic	43,400	31,900	1,900	100	9,400
Asian	138,800	100,000	14,800	1,000	22,800
Other	3,900	3,100	400	S	500
Non-S&E occupations, total	6,490,100	4,420,600	434,000	739,400	896,200
White	5,525,800	3,848,700	353,400	615,100	708,600
Black	383,700	176,500	29,400	73,000	104,800
Hispanic	209,600	126,000	15,100	30,200	38,200
Asian	351,500	258,300	35,200	18,400	39,600
Other	19,600	11,100	900	2,700	4,900
Managers/administrators	1,994,400	1,456,300	96,800	88,500	352,800
White	1,731,100	1,286,100	82,500	70,900	291,600
Black	101,800	48,200	7,700	11,400	34,500
Hispanic	58,500	40,200	2,300	3,200	12,800
Asian	97,000	78,300	4,200	2,500	12,000
Other	6,100	3,400	200	500	2,000
Other non-S&E occupations	4,495,700	2,964,400	337,200	650,800	543,400
White	3,794,700	2,562,600	270,900	544,200	417,000
Black	281,900	128,300	21,800	61,500	70,400
Hispanic	151,100	85,800	12,800	27,000	25,500
Asian	254,500	180,000	31,100	15,800	27,600
Other	13,500	7,700	700	2,200	2,900
Bachelor's					
All occupations, total²	5,727,200	4,242,600	290,100	363,000	831,500
White	4,866,300	3,681,800	231,000	295,300	658,200
Black	320,100	175,500	19,200	37,300	88,100
Hispanic	191,500	127,900	10,800	16,800	36,100
Asian	330,900	246,400	28,000	12,200	44,400
Other	18,400	11,100	1,200	1,400	4,600
S&E occupations, total	1,980,300	1,509,200	128,600	33,800	308,700
White	1,700,100	1,316,500	102,300	28,000	253,200
Black	83,400	53,600	6,800	2,500	20,400
Hispanic	62,600	43,600	5,400	1,300	12,400
Asian	127,600	91,500	13,100	1,900	21,200
Other	6,600	4,000	900	100	1,600
Scientists, total	1,007,000	725,600	106,500	29,000	145,900
White	859,100	627,500	85,500	24,300	121,900
Black	52,000	32,900	5,700	2,100	11,200
Hispanic	31,100	20,600	4,700	1,200	4,600
Asian	61,000	43,000	9,800	1,300	6,900
Other	3,800	1,700	900	100	1,200

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

Table E-5. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and employment sector: 1993

Highest degree, occupation, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Bachelor's — continued					
Computer/math scientists, total	676,200	555,000	31,700	17,500	72,000
White	574,800	476,900	24,900	14,500	58,400
Black	34,500	24,800	2,000	1,300	6,400
Hispanic	19,800	15,500	1,200	700	2,300
Asian	45,300	36,500	3,600	900	4,300
Other	1,900	1,200	100	100	600
Life/related scientists, total	131,600	56,200	33,700	5,200	36,500
White	114,200	50,700	26,400	4,800	32,300
Black	5,800	1,900	1,900	400	1,600
Hispanic	4,900	1,800	1,800	100	1,300
Asian	6,100	1,800	3,100	100	1,100
Other	700	S	500	S	200
Physical/related scientists, total ...	130,700	85,200	19,100	2,700	23,600
White	113,500	74,800	15,800	2,300	20,600
Black	5,700	3,800	500	S	1,400
Hispanic	3,500	2,200	600	400	300
Asian	7,300	4,000	2,200	S	1,200
Other	700	400	S	S	200
Social/related scientists, total	68,500	29,300	22,000	3,500	13,800
White	56,600	25,000	18,300	2,700	10,600
Black	6,000	2,400	1,300	400	1,900
Hispanic	3,000	1,100	1,100	100	700
Asian	2,300	700	900	300	500
Other	600	100	300	S	200
Engineers, total	973,300	783,600	22,100	4,900	162,800
White	841,000	689,000	16,900	3,700	131,300
Black	31,400	20,700	1,100	400	9,200
Hispanic	31,500	23,000	700	100	7,700
Asian	66,600	48,500	3,300	600	14,200
Other	2,700	2,400	100	S	300
Non-S&E occupations, total	3,746,900	2,733,400	161,500	329,100	522,800
White	3,166,200	2,365,300	128,600	267,300	405,000
Black	236,700	121,900	12,400	34,800	67,700
Hispanic	128,900	84,300	5,400	15,400	23,700
Asian	203,300	154,800	14,900	10,300	23,200
Other	11,800	7,000	300	1,400	3,100
Managers/administrators	1,134,700	898,200	32,300	18,500	185,700
White	989,300	796,900	27,000	13,700	151,700
Black	57,100	31,300	2,900	3,300	19,600
Hispanic	35,800	27,300	600	500	7,500
Asian	48,900	40,600	1,800	900	5,600
Other	3,700	2,100	100	100	1,400

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

Table E-5. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and employment sector: 1993

Highest degree, occupation, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Bachelor's — continued					
Other non-S&E occupations	2,612,200	1,835,200	129,200	310,600	337,100
White	2,176,900	1,568,500	101,700	253,600	253,300
Black	179,600	90,600	9,500	31,500	48,100
Hispanic	93,100	57,000	4,800	15,000	16,300
Asian	154,400	114,300	13,100	9,400	17,700
Other	8,100	4,900	200	1,300	1,700
Master's					
All occupations, total²	2,575,600	1,523,200	224,500	447,200	380,800
White	2,155,400	1,291,500	174,200	381,300	308,400
Black	129,400	45,300	11,100	39,300	33,700
Hispanic	73,100	36,700	7,200	16,000	13,100
Asian	210,700	146,500	31,400	9,100	23,700
Other	7,000	3,100	600	1,400	1,900
S&E occupations, total	891,300	571,800	121,500	69,500	128,600
White	725,900	469,000	90,700	61,200	105,100
Black	26,000	11,600	3,600	3,800	7,000
Hispanic	24,200	14,500	3,600	2,500	3,700
Asian	113,300	75,800	23,200	1,800	12,400
Other	1,900	900	400	200	400
Scientists, total	541,400	299,800	97,900	65,400	78,300
White	449,400	250,300	75,300	57,700	66,000
Black	18,800	6,800	3,100	3,700	5,200
Hispanic	13,500	6,100	2,900	2,500	2,100
Asian	58,900	36,300	16,500	1,400	4,700
Other	800	200	100	200	300
Computer/math scientists, total	263,600	184,300	29,400	20,800	29,200
White	212,100	146,500	23,200	18,100	24,200
Black	8,300	3,900	1,100	1,100	2,200
Hispanic	5,300	3,600	300	700	800
Asian	37,600	30,100	4,700	900	1,900
Other	300	100	S	S	100
Life/related scientists, total	70,400	19,800	26,300	7,800	16,500
White	57,400	16,700	19,200	7,100	14,500
Black	2,700	600	900	500	700
Hispanic	1,900	400	900	300	300
Asian	8,300	2,100	5,300	S	1,000
Other	100	S	S	S	100
Physical/related scientists, total ...	72,600	38,000	16,600	4,900	13,100
White	61,100	33,100	11,900	4,400	11,700
Black	1,200	500	100	200	300
Hispanic	1,900	800	700	100	300
Asian	8,200	3,500	3,900	100	700
Other	100	100	S	S	S

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Table E-5. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and employment sector: 1993

Highest degree, occupation, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Master's — continued					
Social/related scientists, total	134,900	57,700	25,600	32,000	19,500
White	118,800	54,000	21,000	28,200	15,600
Black	6,600	1,800	1,000	1,800	2,000
Hispanic	4,400	1,200	1,000	1,500	700
Asian	4,700	600	2,600	400	1,100
Other	300	S	S	200	100
Engineers, total	349,900	272,000	23,500	4,000	50,300
White	276,600	218,700	15,400	3,500	39,100
Black	7,200	4,800	500	100	1,700
Hispanic	10,700	8,400	700	S	1,600
Asian	54,400	39,500	6,700	400	7,800
Other	1,000	700	300	S	100
Non-S&E occupations, total	1,684,300	951,400	103,000	377,700	252,200
White	1,429,500	822,600	83,500	320,100	203,300
Black	103,300	33,700	7,500	35,400	26,700
Hispanic	48,800	22,200	3,600	13,500	9,400
Asian	97,500	70,700	8,200	7,300	11,200
Other	5,100	2,200	200	1,300	1,400
Managers/administrators	693,200	466,700	30,900	56,900	138,700
White	599,000	411,000	25,700	45,900	116,300
Black	35,700	14,400	2,600	6,700	12,100
Hispanic	18,700	10,700	1,200	2,400	4,400
Asian	38,100	29,800	1,400	1,500	5,300
Other	1,700	800	S	300	600
Other non-S&E occupations	991,100	484,700	72,100	320,900	113,500
White	830,500	411,600	57,800	274,200	87,000
Black	67,600	19,300	4,900	28,700	14,700
Hispanic	30,100	11,500	2,400	11,100	5,000
Asian	59,400	40,900	6,700	5,800	5,900
Other	3,400	1,400	100	1,000	900
Doctorate					
All occupations, total ²	634,800	263,500	280,100	32,000	59,100
White	520,800	212,900	231,600	26,700	49,700
Black	20,500	5,300	9,500	2,900	2,900
Hispanic	16,800	6,700	7,100	1,400	1,600
Asian	74,300	37,600	30,800	1,000	4,800
Other	2,400	1,000	1,100	100	200
S&E occupations, total	395,600	147,200	204,100	10,600	33,600
White	321,300	116,400	166,800	9,300	28,800
Black	9,000	2,300	5,600	400	600
Hispanic	9,100	2,600	5,400	400	600
Asian	54,800	25,500	25,400	400	3,500
Other	1,400	300	1,000	S	100

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

Table E-5. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and employment sector: 1993

Highest degree, occupation, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Doctorate — continued					
Scientists, total	330,500	110,000	180,600	10,500	29,400
White	275,900	91,900	149,200	9,200	25,600
Black	8,000	2,000	5,000	400	600
Hispanic	8,000	2,100	4,900	400	500
Asian	37,400	13,700	20,600	400	2,700
Other	1,300	300	900	S	100
Computer/math scientists, total	48,700	18,000	25,900	1,400	3,400
White	38,500	13,800	20,800	1,200	2,800
Black	1,200	300	700	100	100
Hispanic	1,300	500	600	100	S
Asian	7,600	3,300	3,600	100	500
Other	200	S	100	S	S
Life/related scientists, total	98,100	22,600	64,200	1,600	9,700
White	79,900	17,700	52,400	1,500	8,200
Black	1,500	200	1,100	S	200
Hispanic	2,400	400	1,800	S	100
Asian	13,900	4,200	8,600	S	1,100
Other	300	S	200	S	100
Physical/related scientists, total ...	77,000	31,200	36,500	1,900	7,400
White	62,400	24,800	29,600	1,400	6,500
Black	1,100	300	600	100	100
Hispanic	1,700	500	900	200	100
Asian	11,600	5,500	5,300	200	700
Other	200	S	100	S	S
Social/related scientists, total	106,700	38,200	54,000	5,500	9,000
White	95,100	35,600	46,400	5,100	8,000
Black	4,100	1,100	2,500	200	200
Hispanic	2,600	700	1,600	100	200
Asian	4,300	700	3,000	100	400
Other	700	100	500	S	S
Engineers, total	65,000	37,200	23,600	100	4,200
White	45,400	24,500	17,600	100	3,200
Black	1,000	300	600	S	S
Hispanic	1,100	500	500	S	100
Asian	17,500	11,800	4,800	S	800
Other	100	S	100	S	S
Non-S&E occupations, total	239,200	116,300	76,000	21,400	25,500
White	199,500	96,500	64,700	17,400	20,900
Black	11,500	3,000	3,900	2,400	2,200
Hispanic	7,800	4,100	1,800	1,000	1,000
Asian	19,500	12,100	5,400	600	1,300
Other	1,000	700	200	S	100

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Table E-5. Employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and employment sector: 1993

Highest degree, occupation, and race/ethnicity	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Doctorate — continued					
Managers/administrators	119,000	61,400	29,400	11,000	17,200
White	101,900	51,400	26,300	9,200	15,000
Black	5,200	900	1,600	1,400	1,300
Hispanic	2,500	1,500	500	300	300
Asian	8,800	7,200	900	100	600
Other	600	400	100	S	100
Other non-S&E occupations	120,200	54,900	46,600	10,500	8,300
White	97,600	45,100	38,400	8,100	5,900
Black	6,300	2,000	2,300	1,100	900
Hispanic	5,300	2,600	1,300	700	700
Asian	10,700	4,900	4,400	600	700
Other	400	200	100	S	S

1 Includes professional degrees
 2 Total excludes 37,000 individuals who reported never having worked.

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)