

**Table E-4. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, age, and employment sector: 1993**

Highest degree, occupation, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>All degree levels<sup>1</sup></b>					
<b>All occupations, total<sup>2</sup></b> .....	9,793,500	6,661,200	906,100	855,300	1,370,900
<30 .....	1,320,600	913,000	178,400	78,000	151,200
30-39 .....	3,104,400	2,234,000	285,300	180,700	404,500
40-49 .....	3,191,100	2,105,900	234,300	339,100	511,700
50-59 .....	1,515,400	946,300	141,700	198,800	228,600
60+ .....	661,900	462,000	66,300	58,700	74,900
<b>S&amp;E occupations, total</b> .....	3,303,400	2,240,600	472,100	116,000	474,700
<30 .....	500,700	334,100	101,000	7,100	58,500
30-39 .....	1,219,300	882,800	147,800	26,500	162,200
40-49 .....	921,300	611,200	114,000	45,100	151,000
50-59 .....	465,400	287,700	75,300	26,000	76,400
60+ .....	196,700	124,800	33,900	11,300	26,600
<b>Scientists, total</b> .....	1,912,300	1,145,400	402,900	107,000	257,000
<30 .....	290,200	173,000	81,900	6,100	29,200
30-39 .....	700,300	468,500	125,900	24,800	81,100
40-49 .....	569,300	330,200	102,200	42,700	94,200
50-59 .....	258,000	129,100	64,500	23,500	40,800
60+ .....	94,600	44,600	28,300	9,800	11,800
<b>Computer/math scientists, total</b> ....	991,500	759,600	87,200	39,800	104,900
<30 .....	146,800	114,800	16,700	3,300	12,000
30-39 .....	408,900	338,300	29,100	8,700	32,800
40-49 .....	295,600	218,000	23,200	15,800	38,500
50-59 .....	113,200	73,300	14,400	8,100	17,400
60+ .....	27,000	15,200	3,800	3,900	4,100
<b>Life/related scientists, total</b> .....	322,300	102,100	140,400	15,200	64,600
<30 .....	49,200	16,600	24,900	600	7,000
30-39 .....	111,200	38,700	46,500	3,400	22,600
40-49 .....	95,200	29,200	37,300	6,100	22,600
50-59 .....	47,700	12,700	20,700	4,300	9,900
60+ .....	19,000	4,800	11,000	800	2,400
<b>Physical/related scientists, total</b> ...	280,900	154,900	72,200	9,500	44,300
<30 .....	47,400	23,400	18,900	500	4,600
30-39 .....	98,600	59,600	22,800	2,500	13,800
40-49 .....	69,800	38,100	13,600	3,100	15,000
50-59 .....	43,300	21,700	11,600	1,800	8,200
60+ .....	21,700	12,100	5,400	1,600	2,700
<b>Social/related scientists, total</b> .....	317,600	128,800	103,000	42,600	43,200
<30 .....	46,800	18,200	21,400	1,700	5,500
30-39 .....	81,500	31,900	27,500	10,200	11,900
40-49 .....	108,600	44,800	28,100	17,700	18,000
50-59 .....	53,800	21,300	17,800	9,400	5,300
60+ .....	26,900	12,500	8,200	3,600	2,500

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

**Table E-4. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, age, and employment sector: 1993**

Highest degree, occupation, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>All degree levels<sup>1</sup> — continued</b>					
<b>Engineers, total</b> .....	1,391,100	1,095,200	69,200	9,000	217,700
<30 .....	210,500	161,100	19,100	900	29,400
30-39 .....	519,000	414,300	21,900	1,700	81,100
40-49 .....	352,000	281,000	11,800	2,400	56,900
50-59 .....	207,400	158,600	10,800	2,400	35,500
60+ .....	102,100	80,200	5,500	1,500	14,900
<b>Non-S&amp;E occupations, total</b> .....	6,490,100	4,420,600	434,000	739,400	896,200
<30 .....	820,000	579,000	77,400	71,000	92,700
30-39 .....	1,885,100	1,351,200	137,500	154,100	242,300
40-49 .....	2,269,800	1,494,800	120,300	294,000	360,700
50-59 .....	1,050,000	658,600	66,400	172,900	152,200
60+ .....	465,200	337,200	32,400	47,400	48,300
<b>Managers/administrators</b> .....	1,994,400	1,456,300	96,800	88,500	352,800
<30 .....	153,700	120,600	7,700	3,100	22,300
30-39 .....	518,300	418,900	20,300	10,700	68,500
40-49 .....	767,600	532,700	35,100	35,800	164,100
50-59 .....	405,400	270,100	22,700	33,000	79,500
60+ .....	149,400	114,000	11,000	5,900	18,400
<b>Other non-S&amp;E occupations</b> .....	4,495,700	2,964,400	337,200	650,800	543,400
<30 .....	666,300	458,400	69,700	67,800	70,300
30-39 .....	1,366,800	932,300	117,300	143,400	173,800
40-49 .....	1,502,200	962,100	85,200	258,200	196,600
50-59 .....	644,600	388,500	43,600	139,800	72,700
60+ .....	315,900	223,100	21,400	41,500	29,900
<b>Bachelor's</b>					
<b>All occupations, total<sup>2</sup></b> .....	5,727,200	4,242,600	290,100	363,000	831,500
<30 .....	1,115,500	799,700	120,600	66,700	128,400
30-39 .....	1,905,800	1,464,200	85,000	92,800	263,800
40-49 .....	1,656,800	1,190,500	53,900	128,200	284,200
50-59 .....	704,500	510,200	20,200	58,200	116,000
60+ .....	344,500	278,100	10,400	17,000	39,000
<b>S&amp;E occupations, total</b> .....	1,980,300	1,509,200	128,600	33,800	308,700
<30 .....	408,500	284,500	69,000	5,200	49,800
30-39 .....	773,500	619,400	34,200	9,500	110,400
40-49 .....	478,600	363,500	15,200	11,800	88,100
50-59 .....	221,100	165,500	7,100	5,300	43,100
60+ .....	98,700	76,300	3,100	2,000	17,300
<b>Scientists, total</b> .....	1,007,000	725,600	106,500	29,000	145,900
<30 .....	234,600	148,700	57,000	4,300	24,600
30-39 .....	405,400	319,600	29,700	8,700	47,400
40-49 .....	251,500	178,600	13,100	10,500	49,200
50-59 .....	90,000	61,600	5,200	3,800	19,300
60+ .....	25,600	17,200	1,400	1,700	5,400

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

**Table E-4. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, age, and employment sector: 1993**

Highest degree, occupation, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>Bachelor's — continued</b>					
<b>Computer/math scientists, total</b> ....	676,200	555,000	31,700	17,500	72,000
<30 .....	124,300	99,900	10,800	2,800	10,900
30-39 .....	297,600	257,500	11,500	5,300	23,300
40-49 .....	182,100	144,200	6,500	6,000	25,400
50-59 .....	61,000	45,400	2,800	2,800	10,200
60+ .....	11,200	8,000	200	700	2,300
<b>Life/related scientists, total</b> .....	131,600	56,200	33,700	5,200	36,500
<30 .....	39,600	14,500	18,600	400	6,100
30-39 .....	44,500	21,100	9,500	1,000	13,000
40-49 .....	30,000	12,700	3,200	2,200	11,900
50-59 .....	12,900	5,500	1,800	1,000	4,600
60+ .....	4,700	2,500	700	600	900
<b>Physical/related scientists, total</b> ...	130,700	85,200	19,100	2,700	23,600
<30 .....	37,600	19,800	13,700	400	3,700
30-39 .....	46,600	34,100	3,700	1,300	7,500
40-49 .....	26,000	16,800	1,200	900	7,100
50-59 .....	13,200	9,300	100	S	3,900
60+ .....	7,200	5,300	400	100	1,400
<b>Social/related scientists, total</b> .....	68,500	29,300	22,000	3,500	13,800
<30 .....	32,900	14,600	13,900	700	3,800
30-39 .....	16,700	6,900	5,000	1,100	3,600
40-49 .....	13,300	4,900	2,300	1,400	4,800
50-59 .....	2,900	1,500	600	100	700
60+ .....	2,600	1,400	100	300	800
<b>Engineers, total</b> .....	973,300	783,600	22,100	4,900	162,800
<30 .....	173,900	135,800	12,000	900	25,200
30-39 .....	368,100	299,800	4,500	800	63,000
40-49 .....	227,100	185,000	2,000	1,300	38,800
50-59 .....	131,100	103,900	1,900	1,500	23,800
60+ .....	73,100	59,100	1,700	300	11,900
<b>Non-S&amp;E occupations, total</b> .....	3,746,900	2,733,400	161,500	329,100	522,800
<30 .....	707,000	515,200	51,600	61,500	78,600
30-39 .....	1,132,300	844,900	50,800	83,300	153,400
40-49 .....	1,178,300	826,900	38,700	116,500	196,100
50-59 .....	483,500	344,600	13,100	52,800	72,900
60+ .....	245,800	201,800	7,300	15,000	21,700
<b>Managers/administrators</b> .....	1,134,700	898,200	32,300	18,500	185,700
<30 .....	134,100	106,700	5,700	2,500	19,200
30-39 .....	325,800	270,600	9,700	4,000	41,600
40-49 .....	400,500	300,400	10,600	8,500	81,000
50-59 .....	186,700	144,300	3,500	2,800	36,200
60+ .....	87,500	76,300	2,900	600	7,800

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

**Table E-4. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, age, and employment sector: 1993**

Highest degree, occupation, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>Bachelor's — continued</b>					
<b>Other non-S&amp;E occupations</b> .....	2,612,200	1,835,200	129,200	310,600	337,100
<30 .....	572,900	408,500	45,900	59,000	59,500
30-39 .....	806,500	574,300	41,100	79,200	111,800
40-49 .....	777,700	526,500	28,100	108,000	115,100
50-59 .....	296,700	200,400	9,600	50,000	36,700
60+ .....	158,300	125,500	4,500	14,400	14,000
<b>Master's</b>					
<b>All occupations, total</b> <sup>2</sup> .....	2,575,600	1,523,200	224,500	447,200	380,800
<30 .....	153,800	89,600	37,500	10,600	16,100
30-39 .....	748,200	489,300	77,300	83,000	98,600
40-49 .....	988,300	568,600	62,900	192,700	164,100
50-59 .....	514,200	274,300	32,700	125,700	81,500
60+ .....	171,000	101,300	14,100	35,200	20,400
<b>S&amp;E occupations, total</b> .....	891,300	571,800	121,500	69,500	128,600
<30 .....	84,700	47,300	27,000	1,900	8,500
30-39 .....	322,300	216,100	48,300	15,100	42,700
40-49 .....	294,100	188,800	28,500	28,600	48,100
50-59 .....	140,200	86,700	13,800	16,200	23,500
60+ .....	50,000	32,900	3,700	7,700	5,700
<b>Scientists, total</b> .....	541,400	299,800	97,900	65,400	78,300
<30 .....	50,000	22,600	21,100	1,800	4,500
30-39 .....	192,400	114,700	37,600	14,300	25,900
40-49 .....	189,400	104,900	25,400	27,500	31,600
50-59 .....	80,700	41,500	10,900	15,300	13,000
60+ .....	29,000	16,100	3,000	6,600	3,300
<b>Computer/math scientists, total</b> ....	263,600	184,300	29,400	20,800	29,200
<30 .....	21,300	14,400	5,300	400	1,200
30-39 .....	97,300	74,700	10,500	3,300	8,900
40-49 .....	95,400	66,000	8,300	9,200	11,800
50-59 .....	38,100	23,200	4,400	4,800	5,700
60+ .....	11,500	6,100	900	2,900	1,600
<b>Life/related scientists, total</b> .....	70,400	19,800	26,300	7,800	16,500
<30 .....	7,300	1,800	4,500	200	800
30-39 .....	27,300	8,400	10,400	2,000	6,600
40-49 .....	23,600	6,600	7,800	3,000	6,100
50-59 .....	10,100	2,500	2,500	2,600	2,500
60+ .....	2,100	500	1,100	100	500
<b>Physical/related scientists, total</b> ...	72,600	38,000	16,600	4,900	13,100
<30 .....	8,500	3,200	4,400	100	900
30-39 .....	27,600	15,000	7,400	1,000	4,400
40-49 .....	21,500	11,800	2,800	1,600	5,400
50-59 .....	9,800	5,100	1,700	1,100	2,000
60+ .....	5,000	3,000	400	1,100	500

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

**Table E-4. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, age, and employment sector: 1993**

Highest degree, occupation, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>Master's — continued</b>					
<b>Social/related scientists, total</b> .....	134,900	57,700	25,600	32,000	19,500
<30 .....	12,800	3,300	6,800	1,000	1,600
30-39 .....	40,200	16,700	9,400	8,000	6,100
40-49 .....	48,900	20,500	6,400	13,700	8,300
50-59 .....	22,600	10,700	2,400	6,800	2,700
60+ .....	10,400	6,500	600	2,500	700
<b>Engineers, total</b> .....	349,900	272,000	23,500	4,000	50,300
<30 .....	34,700	24,700	6,000	S	4,000
30-39 .....	129,900	101,500	10,700	900	16,900
40-49 .....	104,700	83,900	3,200	1,100	16,500
50-59 .....	59,600	45,200	3,000	900	10,500
60+ .....	21,000	16,800	700	1,100	2,400
<b>Non-S&amp;E occupations, total</b> .....	1,684,300	951,400	103,000	377,700	252,200
<30 .....	69,200	42,300	10,500	8,700	7,600
30-39 .....	425,900	273,200	28,900	67,900	55,900
40-49 .....	694,300	379,800	34,400	164,100	116,000
50-59 .....	373,900	187,600	18,800	109,600	57,900
60+ .....	120,900	68,400	10,300	27,400	14,700
<b>Managers/administrators</b> .....	693,200	466,700	30,900	56,900	138,700
<30 .....	19,100	13,900	1,900	200	3,100
30-39 .....	170,700	131,900	7,900	6,000	25,000
40-49 .....	297,200	192,700	12,900	22,800	68,800
50-59 .....	163,400	99,100	5,400	24,800	34,200
60+ .....	42,800	29,200	2,900	3,200	7,600
<b>Other non-S&amp;E occupations</b> .....	991,100	484,700	72,100	320,900	113,500
<30 .....	50,100	28,400	8,600	8,600	4,500
30-39 .....	255,200	141,300	21,100	61,900	30,900
40-49 .....	397,100	187,200	21,500	141,300	47,200
50-59 .....	210,500	88,500	13,500	84,800	23,700
60+ .....	78,100	39,300	7,400	24,300	7,100
<b>Doctorate</b>					
<b>All occupations, total</b> <sup>2</sup> .....	634,800	263,500	280,100	32,000	59,100
<30 .....	8,200	2,800	4,700	200	500
30-39 .....	146,300	62,000	70,700	3,100	10,600
40-49 .....	227,000	99,000	92,100	10,900	25,000
50-59 .....	178,200	70,100	78,400	13,000	16,600
60+ .....	75,100	29,600	34,300	4,800	6,400
<b>S&amp;E occupations, total</b> .....	395,600	147,200	204,100	10,600	33,600
<30 .....	6,700	2,200	4,300	S	200
30-39 .....	114,200	44,400	60,000	1,400	8,300
40-49 .....	135,300	53,400	64,900	3,900	13,000
50-59 .....	97,000	33,000	51,500	3,700	8,800
60+ .....	42,300	14,200	23,400	1,500	3,200

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**Table E-4. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, age, and employment sector: 1993**

Highest degree, occupation, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>Doctorate — continued</b>					
<b>Scientists, total</b> .....	330,500	110,000	180,600	10,500	29,400
<30 .....	4,900	1,700	3,100	S	100
30-39 .....	94,000	32,100	53,300	1,400	7,200
40-49 .....	115,900	41,900	58,400	3,900	11,700
50-59 .....	80,700	23,800	45,500	3,700	7,700
60+ .....	35,000	10,600	20,300	1,400	2,700
<b>Computer/math scientists, total</b> ....	48,700	18,000	25,900	1,400	3,400
<30 .....	1,200	500	600	S	S
30-39 .....	12,500	4,900	6,900	100	600
40-49 .....	17,400	7,200	8,500	600	1,100
50-59 .....	13,600	4,400	7,300	500	1,400
60+ .....	4,000	900	2,600	100	200
<b>Life/related scientists, total</b> .....	98,100	22,600	64,200	1,600	9,700
<30 .....	1,500	400	1,000	S	100
30-39 .....	33,900	8,900	22,000	200	2,800
40-49 .....	33,700	8,100	21,200	700	3,700
50-59 .....	20,700	3,700	14,100	600	2,300
60+ .....	8,200	1,500	5,800	100	900
<b>Physical/related scientists, total</b> ...	77,000	31,200	36,500	1,900	7,400
<30 .....	1,200	400	800	S	S
30-39 .....	24,200	10,500	11,700	200	1,700
40-49 .....	22,300	9,600	9,600	600	2,500
50-59 .....	19,800	6,900	9,900	800	2,300
60+ .....	9,500	3,800	4,500	400	900
<b>Social/related scientists, total</b> .....	106,700	38,200	54,000	5,500	9,000
<30 .....	1,000	300	700	S	S
30-39 .....	23,300	7,800	12,600	800	2,100
40-49 .....	42,500	17,000	19,100	2,000	4,400
50-59 .....	26,600	8,800	14,200	1,900	1,700
60+ .....	13,300	4,400	7,300	800	700
<b>Engineers, total</b> .....	65,000	37,200	23,600	100	4,200
<30 .....	1,800	500	1,200	S	100
30-39 .....	20,200	12,300	6,700	100	1,100
40-49 .....	19,500	11,500	6,600	S	1,300
50-59 .....	16,300	9,200	6,000	S	1,100
60+ .....	7,300	3,600	3,200	S	500
<b>Non-S&amp;E occupations, total</b> .....	239,200	116,300	76,000	21,400	25,500
<30 .....	1,400	600	400	200	300
30-39 .....	32,200	17,600	10,700	1,700	2,300
40-49 .....	91,700	45,600	27,100	7,000	12,000
50-59 .....	81,200	37,100	26,900	9,300	7,800
60+ .....	32,800	15,400	10,900	3,300	3,200

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

**Table E-4. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, age, and employment sector: 1993**

Highest degree, occupation, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
<b>Doctorate — continued</b>					
<b>Managers/administrators</b> .....	119,000	61,400	29,400	11,000	17,200
<30 .....	100	S	S	S	S
30-39 .....	12,000	8,500	2,000	300	1,200
40-49 .....	48,100	27,100	9,600	3,300	8,100
50-59 .....	44,900	20,400	13,100	5,300	6,100
60+ .....	14,000	5,400	4,700	2,100	1,900
<b>Other non-S&amp;E occupations</b> .....	120,200	54,900	46,600	10,500	8,300
<30 .....	1,300	500	400	200	300
30-39 .....	20,200	9,100	8,700	1,400	1,100
40-49 .....	43,600	18,500	17,600	3,600	3,900
50-59 .....	36,300	16,700	13,800	4,000	1,800
60+ .....	18,800	10,100	6,100	1,300	1,300

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)