

Table C-3. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment sector: 1999

Level and field of highest degree, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
All degree levels¹					
All degree fields, total	10,981,600	7,556,000	961,500	1,060,900	1,403,300
<30	1,534,200	1,049,700	193,100	146,400	144,900
30-39	2,718,200	1,976,200	231,000	198,000	312,900
40-49	3,426,400	2,399,900	250,400	311,200	464,800
50-59	2,477,400	1,560,600	198,800	322,900	395,000
60+	825,500	569,500	88,100	82,400	85,500
S&E degree fields, total	7,980,100	5,545,400	701,700	677,400	1,055,600
<30	1,383,600	960,600	169,500	122,200	131,200
30-39	2,047,200	1,502,800	168,900	133,700	241,800
40-49	2,349,600	1,640,600	169,200	190,900	348,900
50-59	1,643,400	1,041,100	139,900	185,900	276,600
60+	556,300	400,400	54,200	44,600	57,000
Sciences, total	6,043,700	3,945,200	621,000	658,200	819,400
<30	1,126,700	747,100	150,700	120,300	108,600
30-39	1,469,100	1,015,600	146,500	130,400	176,700
40-49	1,796,900	1,186,000	153,100	186,800	271,000
50-59	1,276,600	745,900	125,600	179,500	225,700
60+	374,300	250,600	45,100	41,200	37,400
Computer/math sciences, total	1,045,800	804,100	66,600	97,500	77,600
<30	138,800	103,600	11,900	17,800	5,400
30-39	347,100	289,100	17,000	18,900	22,100
40-49	310,400	242,100	16,400	28,200	23,800
50-59	204,000	137,800	15,900	27,500	22,800
60+	45,600	31,500	5,400	5,200	3,500
Life/related sciences, total	1,287,700	768,700	219,700	125,500	173,800
<30	245,900	152,200	53,700	20,200	19,900
30-39	291,200	167,600	57,300	27,400	38,900
40-49	418,600	262,000	56,400	39,300	61,000
50-59	261,700	141,700	39,700	33,100	47,200
60+	70,300	45,300	12,600	5,500	6,900
Physical/related sciences, total	621,700	414,500	90,700	40,200	76,300
<30	77,900	43,800	22,400	5,500	6,300
30-39	143,600	97,500	21,800	8,900	15,500
40-49	190,000	134,400	18,900	10,100	26,600
50-59	140,600	91,000	18,300	9,800	21,400
60+	69,500	47,800	9,300	5,900	6,500
Social/related sciences, total	3,088,400	1,957,800	243,900	394,900	491,700
<30	664,100	447,500	62,700	76,800	77,100
30-39	687,300	461,300	50,400	75,300	100,300
40-49	877,900	547,600	61,400	109,200	159,700
50-59	670,300	375,400	51,600	109,100	134,300
60+	188,800	126,000	17,800	24,600	20,400

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

Table C-3. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment sector: 1999

Level and field of highest degree, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
All degree levels¹ — continued					
Engineering, total	1,936,400	1,600,300	80,800	19,200	236,200
<30	256,900	213,500	18,800	1,900	22,600
30-39	578,100	487,200	22,400	3,400	65,100
40-49	552,700	454,500	16,200	4,100	77,900
50-59	366,800	295,200	14,300	6,400	50,900
60+	182,000	149,800	9,100	3,500	19,600
Non-S&E degree fields, total	3,001,500	2,010,500	259,800	383,500	347,700
<30	150,500	89,100	23,600	24,200	13,700
30-39	671,000	473,400	62,200	64,200	71,100
40-49	1,076,800	759,400	81,100	120,300	116,000
50-59	834,000	519,600	59,000	137,100	118,400
60+	269,200	169,100	33,900	37,700	28,500
Bachelor's					
All degree fields, total	6,350,100	4,694,100	327,100	479,700	849,300
<30	1,263,200	887,000	141,000	114,400	120,800
30-39	1,666,600	1,288,900	71,100	106,700	199,900
40-49	1,889,700	1,410,500	66,200	132,000	281,000
50-59	1,153,600	805,500	36,400	104,900	206,800
60+	377,000	302,300	12,400	21,600	40,700
S&E degree fields, total	5,866,100	4,312,700	305,400	457,300	790,700
<30	1,253,300	879,500	140,200	113,300	120,400
30-39	1,542,200	1,187,500	65,300	103,200	186,200
40-49	1,685,400	1,246,900	56,600	123,800	258,000
50-59	1,038,500	718,500	33,500	97,000	189,500
60+	346,700	280,200	9,800	20,000	36,600
Sciences, total	4,486,100	3,148,800	275,500	442,400	619,400
<30	1,038,900	698,800	127,400	111,600	101,000
30-39	1,139,700	841,300	58,700	100,400	139,400
40-49	1,295,300	919,700	52,400	121,100	202,100
50-59	796,200	519,900	29,300	91,800	155,200
60+	215,900	169,100	7,600	17,600	21,600
Computer/math sciences, total	742,700	595,500	23,700	65,400	58,000
<30	117,800	88,000	7,800	16,900	5,100
30-39	266,800	228,600	6,400	14,600	17,200
40-49	211,100	171,600	5,000	17,300	17,200
50-59	123,100	88,400	3,900	14,600	16,300
60+	23,900	18,900	500	2,100	2,300
Life/related sciences, total	947,000	631,000	101,700	88,200	126,100
<30	232,800	146,300	48,100	19,600	18,800
30-39	213,500	137,100	25,000	21,600	29,800
40-49	302,300	213,500	17,900	27,300	43,600
50-59	159,500	103,400	8,400	17,300	30,400
60+	38,900	30,800	2,300	2,400	3,500

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

Table C-3. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment sector: 1999

Level and field of highest degree, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Bachelor's — continued					
Physical/related sciences, total	380,900	278,700	32,700	22,900	46,600
<30	67,700	38,800	18,200	5,200	5,500
30-39	89,900	66,800	7,200	5,500	10,400
40-49	115,500	88,600	4,300	6,000	16,500
50-59	69,700	52,400	1,900	3,700	11,800
60+	38,100	32,200	1,000	2,500	2,500
Social/related sciences, total	2,415,500	1,643,600	117,400	265,900	388,600
<30	620,600	425,700	53,200	70,000	71,600
30-39	569,500	408,800	20,000	58,700	82,000
40-49	666,400	446,000	25,200	70,400	124,800
50-59	443,900	275,700	15,100	56,200	96,900
60+	115,000	87,300	3,900	10,500	13,400
Engineering, total	1,380,000	1,163,900	29,900	14,900	171,300
<30	214,400	180,700	12,700	1,700	19,300
30-39	402,500	346,200	6,600	2,800	46,800
40-49	390,100	327,200	4,200	2,700	56,000
50-59	242,300	198,700	4,100	5,200	34,200
60+	130,700	111,100	2,200	2,500	14,900
Non-S&E degree fields, total	484,000	381,400	21,600	22,400	58,600
<30	9,900	7,500	800	1,100	400
30-39	124,400	101,400	5,800	3,500	13,700
40-49	204,300	163,600	9,500	8,200	23,000
50-59	115,100	86,900	2,900	7,900	17,300
60+	30,300	22,000	2,600	1,600	4,100
Master's					
All degree fields, total	2,982,000	1,851,000	226,000	518,000	387,000
<30	202,200	122,300	33,000	30,500	16,400
30-39	689,400	460,600	64,000	82,700	82,200
40-49	969,100	622,900	60,900	160,800	124,400
50-59	863,900	484,300	49,400	194,200	135,900
60+	257,400	160,900	18,700	49,800	28,000
S&E degree fields, total	1,491,200	954,600	133,900	195,700	207,000
<30	119,800	77,400	24,100	8,200	10,200
30-39	366,300	249,500	44,100	27,300	45,400
40-49	466,900	304,100	32,000	59,500	71,300
50-59	411,800	237,900	26,900	80,000	67,100
60+	126,400	85,700	6,900	20,900	13,000
Sciences, total	1,040,400	585,600	111,900	192,600	150,200
<30	79,800	45,900	18,800	7,900	7,100
30-39	222,500	131,200	35,600	26,900	28,800
40-49	334,000	195,400	28,000	58,500	52,100
50-59	314,600	158,500	24,000	79,200	52,800
60+	89,600	54,500	5,600	20,100	9,400

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

Table C-3. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment sector: 1999

Level and field of highest degree, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Master's — continued					
Computer/math sciences, total	262,600	192,700	21,400	31,200	17,200
<30	19,500	15,100	3,200	1,000	200
30-39	70,600	55,900	6,000	4,200	4,500
40-49	86,500	65,700	4,800	10,500	5,500
50-59	68,400	44,600	5,400	12,500	5,900
60+	17,600	11,400	2,100	3,000	1,100
Life/related sciences, total	164,100	75,400	27,500	31,100	30,200
<30	10,700	5,200	3,900	600	1,000
30-39	37,800	17,700	8,800	5,000	6,200
40-49	54,900	25,900	8,400	9,400	11,200
50-59	49,500	19,600	5,300	13,800	10,800
60+	11,300	7,000	1,000	2,300	1,000
Physical/related sciences, total	113,900	69,400	14,600	13,100	16,700
<30	8,000	4,100	3,000	300	600
30-39	24,300	14,600	4,600	2,500	2,600
40-49	37,400	25,000	2,700	3,200	6,500
50-59	33,100	19,300	3,900	4,600	5,300
60+	11,200	6,400	500	2,600	1,700
Social/related sciences, total	499,800	248,000	48,400	117,200	86,200
<30	41,700	21,500	8,800	6,100	5,400
30-39	89,800	42,900	16,200	15,100	15,600
40-49	155,100	78,800	12,100	35,400	28,800
50-59	163,600	75,100	9,400	48,300	30,800
60+	49,500	29,700	2,100	12,200	5,500
Engineering, total	450,800	369,000	21,900	3,100	56,700
<30	40,000	31,400	5,300	200	3,100
30-39	143,800	118,400	8,500	400	16,600
40-49	132,900	108,700	4,000	1,000	19,300
50-59	97,200	79,400	2,900	700	14,200
60+	36,800	31,100	1,300	800	3,600
Non-S&E degree fields, total	1,490,800	896,400	92,100	322,300	180,000
<30	82,300	44,900	8,900	22,400	6,200
30-39	323,200	211,000	19,900	55,400	36,800
40-49	502,200	318,800	29,000	101,300	53,100
50-59	452,100	246,400	22,600	114,300	68,900
60+	131,000	75,300	11,800	29,000	15,000
Doctorate					
All degree fields, total	736,700	322,000	309,400	39,700	65,600
<30	10,500	4,400	5,300	200	600
30-39	153,500	73,400	66,000	4,300	9,800
40-49	221,900	98,300	91,900	10,300	21,400
50-59	239,300	98,800	98,000	17,700	24,700
60+	111,400	47,100	48,200	7,100	9,000

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Level and field of highest degree, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Doctorate — continued					
S&E degree fields, total	614,600	274,700	261,200	21,800	56,800
<30	9,900	3,800	5,300	200	600
30-39	137,600	65,500	59,400	3,100	9,600
40-49	194,700	88,000	80,100	7,300	19,200
50-59	189,600	83,000	79,000	7,900	19,800
60+	82,800	34,500	37,500	3,300	7,400
Sciences, total	509,000	207,300	232,300	20,700	48,700
<30	7,400	2,300	4,500	200	400
30-39	105,800	42,900	52,100	3,000	7,900
40-49	165,000	69,400	72,100	7,000	16,600
50-59	162,400	65,800	71,700	7,500	17,400
60+	68,300	27,000	31,900	3,000	6,300
Computer/math sciences, total	40,600	15,800	21,500	900	2,300
<30	1,500	500	900	S	S
30-39	9,700	4,600	4,600	100	400
40-49	12,800	4,800	6,500	400	1,100
50-59	12,400	4,700	6,600	400	700
60+	4,100	1,200	2,800	100	100
Life/related sciences, total	176,200	62,400	90,500	6,100	17,200
<30	2,500	700	1,700	S	100
30-39	39,800	12,800	23,400	800	2,700
40-49	61,100	22,500	30,000	2,600	5,900
50-59	52,700	18,800	25,900	2,000	6,000
60+	20,100	7,500	9,400	800	2,400
Physical/related sciences, total	125,900	65,700	43,300	4,200	12,700
<30	2,300	800	1,200	S	200
30-39	28,900	15,900	9,900	900	2,200
40-49	37,200	20,800	11,900	900	3,600
50-59	37,300	18,800	12,500	1,500	4,400
60+	20,200	9,300	7,800	800	2,300
Social/related sciences, total	166,400	63,500	77,000	9,400	16,400
<30	1,200	300	700	200	100
30-39	27,500	9,500	14,200	1,200	2,500
40-49	54,000	21,200	23,700	3,100	6,000
50-59	60,000	23,500	26,600	3,500	6,300
60+	23,800	9,000	11,900	1,400	1,500
Engineering, total	105,600	67,400	28,900	1,100	8,100
<30	2,500	1,400	800	S	200
30-39	31,800	22,600	7,300	100	1,700
40-49	29,600	18,700	7,900	400	2,600
50-59	27,200	17,100	7,200	400	2,400
60+	14,500	7,600	5,600	200	1,100

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

Table C-3. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment sector: 1999

Level and field of highest degree, and age	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Doctorate — continued					
Non-S&E degree fields, total	122,100	47,300	48,100	17,900	8,800
<30	600	600	S	S	S
30-39	15,900	7,900	6,600	1,200	200
40-49	27,300	10,300	11,800	3,000	2,100
50-59	49,600	15,800	19,000	9,900	4,900
60+	28,700	12,600	10,700	3,900	1,500

¹ Total includes professional degrees not broken out separately.

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, 1997, or 1999 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 Statistics Division, 1999 SESTAT (Scientists and Engineers Statistical Data System)