

Table C-3. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment sector: 1997

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	10,585,600	7,264,900	940,600	1,012,900	1,367,300
<30	1,478,800	1,014,000	189,000	138,700	137,200
30-39	2,816,000	2,055,900	244,600	183,400	332,100
40-49	3,443,100	2,356,400	253,800	337,500	495,400
50-59	2,103,600	1,317,500	176,600	281,800	327,800
60+	744,100	521,200	76,600	71,600	74,700
S&E degree fields, total	7,704,000	5,330,200	682,900	661,600	1,029,200
<30	1,350,200	933,700	167,100	123,200	126,200
30-39	2,082,200	1,516,600	178,000	128,200	259,400
40-49	2,343,900	1,607,500	168,000	205,900	362,500
50-59	1,418,700	904,900	122,000	161,100	230,600
60+	508,900	367,500	47,800	43,200	50,500
Sciences, total	5,794,700	3,768,600	599,700	641,300	785,200
<30	1,091,700	723,800	146,600	120,900	100,500
30-39	1,464,100	1,007,500	152,800	123,400	180,400
40-49	1,835,300	1,190,400	153,200	202,900	288,700
50-59	1,076,800	631,100	107,100	155,300	183,200
60+	327,000	215,700	40,000	38,800	32,400
Computer/math sciences, total	1,003,300	756,100	65,700	99,600	81,900
<30	144,300	105,600	13,900	18,300	6,500
30-39	359,900	295,200	17,900	20,300	26,400
40-49	290,200	218,600	16,400	30,100	25,100
50-59	173,900	114,400	13,200	24,900	21,400
60+	35,000	22,300	4,300	5,900	2,500
Life/related sciences, total	1,204,700	720,700	202,600	123,000	158,400
<30	208,300	126,600	44,000	20,800	17,000
30-39	290,000	169,500	57,900	26,800	35,800
40-49	429,800	270,900	55,600	38,600	64,700
50-59	211,900	112,000	33,600	31,100	35,200
60+	64,700	41,700	11,600	5,700	5,700
Physical/related sciences, total	619,200	417,300	90,100	38,100	73,700
<30	77,500	43,600	22,000	5,900	6,100
30-39	154,600	107,200	23,400	6,500	17,500
40-49	189,500	133,800	19,300	12,100	24,200
50-59	135,500	88,400	17,500	10,300	19,300
60+	62,100	44,300	7,800	3,300	6,600
Social/related sciences, total	2,967,600	1,874,500	241,300	380,600	471,200
<30	661,600	448,100	66,700	75,800	70,900
30-39	659,600	435,600	53,600	69,700	100,700
40-49	925,800	567,100	62,000	122,100	174,700
50-59	555,400	316,300	42,800	89,000	107,300
60+	165,200	107,400	16,200	24,000	17,600

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: 1997

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	1,909,200	1,561,600	83,200	20,300	244,100
<30	258,500	209,900	20,600	2,300	25,700
30-39	618,100	509,100	25,200	4,800	79,000
40-49	508,700	417,100	14,900	3,000	73,800
50-59	341,900	273,800	14,900	5,800	47,500
60+	182,000	151,800	7,700	4,400	18,100
Non-S&E degree fields, total	2,881,700	1,934,700	257,700	351,300	338,000
<30	128,600	80,300	21,900	15,500	11,000
30-39	733,800	539,300	66,600	55,200	72,700
40-49	1,099,200	748,900	85,800	131,600	132,900
50-59	684,900	412,600	54,500	120,600	97,200
60+	235,200	153,700	28,900	28,400	24,300
Bachelor's					
All degree fields, total	6,193,700	4,582,200	317,600	463,200	830,700
<30	1,233,800	866,700	136,900	113,900	116,300
30-39	1,744,700	1,346,800	75,200	105,700	217,000
40-49	1,882,400	1,379,300	69,400	138,100	295,500
50-59	974,700	699,800	26,100	82,900	165,900
60+	358,100	289,600	9,900	22,600	36,000
S&E degree fields, total	5,683,700	4,177,500	294,000	441,500	770,700
<30	1,223,400	859,200	135,000	113,400	115,800
30-39	1,582,100	1,212,800	67,300	99,600	202,500
40-49	1,672,000	1,214,800	60,200	128,400	268,600
50-59	877,300	623,200	23,300	78,800	152,000
60+	329,000	267,500	8,200	21,400	31,900
Sciences, total	4,303,400	3,022,100	264,100	425,900	591,400
<30	1,008,100	682,900	121,000	111,300	92,900
30-39	1,134,100	833,800	60,000	95,700	144,600
40-49	1,316,100	919,200	56,200	126,700	214,000
50-59	651,100	434,700	20,100	74,400	121,800
60+	194,000	151,400	6,700	17,800	18,100
Computer/math sciences, total	721,600	568,700	26,300	64,100	62,500
<30	124,700	91,900	9,700	16,900	6,100
30-39	277,800	235,700	6,400	14,200	21,400
40-49	195,000	152,100	6,400	19,000	17,500
50-59	103,400	73,500	3,000	11,300	15,600
60+	20,800	15,500	800	2,600	1,900
Life/related sciences, total	884,500	593,100	89,100	87,800	114,500
<30	196,500	121,500	39,100	19,900	15,900
30-39	215,200	141,800	24,200	21,800	27,400
40-49	312,300	222,600	18,000	25,300	46,400
50-59	123,100	77,500	6,000	17,800	21,800
60+	37,500	29,700	1,800	3,000	3,000

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: 1997

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	381,900	283,600	33,200	21,200	43,900
<30	67,500	39,200	17,500	5,400	5,300
30-39	95,600	73,200	7,000	4,200	11,200
40-49	116,300	89,000	5,800	6,600	14,800
50-59	67,700	52,100	2,500	3,700	9,400
60+	34,800	30,000	400	1,300	3,100
Social/related sciences, total	2,315,500	1,576,700	115,500	252,800	370,500
<30	619,600	430,300	54,700	69,100	65,500
30-39	545,400	383,200	22,400	55,400	84,500
40-49	692,600	455,500	26,000	75,800	135,300
50-59	357,000	231,600	8,600	41,600	75,100
60+	101,000	76,200	3,800	10,900	10,100
Engineering, total	1,380,300	1,155,400	29,900	15,600	179,300
<30	215,200	176,300	13,900	2,100	22,900
30-39	448,100	379,000	7,300	3,900	57,900
40-49	355,900	295,600	4,000	1,700	54,600
50-59	226,200	188,500	3,100	4,300	30,200
60+	135,000	116,100	1,500	3,600	13,800
Non-S&E degree fields, total	510,000	404,600	23,600	21,800	60,000
<30	10,400	7,500	1,900	500	500
30-39	162,600	134,000	7,900	6,200	14,500
40-49	210,400	164,500	9,200	9,700	26,900
50-59	97,500	76,500	2,800	4,100	14,000
60+	29,100	22,000	1,700	1,200	4,100
Master's					
All degree fields, total	2,819,800	1,736,000	219,300	492,100	372,500
<30	186,100	113,100	34,500	23,500	15,100
30-39	686,800	468,700	66,800	69,900	81,400
40-49	983,800	609,300	58,400	178,500	137,600
50-59	739,200	402,300	42,500	178,200	116,100
60+	223,900	142,600	17,000	42,000	22,300
S&E degree fields, total	1,431,600	898,400	133,200	199,200	200,900
<30	118,100	70,900	27,800	9,500	9,900
30-39	362,800	242,300	49,200	24,700	46,600
40-49	478,900	307,000	27,900	70,100	73,800
50-59	361,600	205,500	22,000	75,800	58,300
60+	110,300	72,800	6,400	19,000	12,200
Sciences, total	1,001,000	552,800	109,100	195,200	144,000
<30	77,200	38,900	21,700	9,300	7,400
30-39	221,800	130,900	39,300	23,900	27,600
40-49	352,600	202,500	24,700	69,000	56,400
50-59	273,700	137,100	18,300	74,600	43,700
60+	75,700	43,400	5,100	18,300	8,900

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: 1997

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	244,700	174,100	18,400	34,400	17,700
<30	18,900	13,500	3,600	1,400	400
30-39	72,600	55,500	6,600	6,000	4,500
40-49	83,600	62,000	3,700	10,800	7,100
50-59	58,700	37,000	3,400	13,200	5,200
60+	10,800	6,100	1,100	3,000	500
Life/related sciences, total	156,600	72,900	27,700	29,600	26,400
<30	9,800	4,700	3,600	600	900
30-39	37,300	16,200	11,500	4,200	5,400
40-49	56,800	27,200	6,800	11,000	11,700
50-59	43,100	18,900	4,700	12,000	7,500
60+	9,700	5,800	1,100	1,800	1,000
Physical/related sciences, total	114,500	70,600	14,100	13,400	16,400
<30	8,300	3,500	3,600	500	700
30-39	27,700	17,400	5,000	1,400	3,800
40-49	38,600	25,700	2,700	4,500	5,700
50-59	29,200	16,600	2,200	5,400	5,000
60+	10,800	7,400	500	1,600	1,400
Social/related sciences, total	485,300	235,200	48,900	117,800	83,400
<30	40,300	17,200	10,900	6,700	5,400
30-39	84,200	41,800	16,100	12,400	13,900
40-49	173,700	87,500	11,500	42,700	32,000
50-59	142,700	64,500	8,000	44,100	26,000
60+	44,400	24,100	2,400	11,800	6,100
Engineering, total	430,600	345,600	24,200	4,000	56,900
<30	40,800	31,900	6,100	200	2,600
30-39	141,000	111,400	9,900	800	19,000
40-49	126,200	104,500	3,200	1,100	17,400
50-59	87,900	68,400	3,700	1,100	14,700
60+	34,700	29,400	1,300	700	3,300
Non-S&E degree fields, total	1,388,200	837,600	86,000	292,900	171,600
<30	68,100	42,200	6,700	14,000	5,100
30-39	324,000	226,400	17,600	45,200	34,800
40-49	505,000	302,300	30,500	108,300	63,800
50-59	377,600	196,900	20,500	102,500	57,700
60+	113,600	69,800	10,700	22,900	10,200
Doctorate					
All degree fields, total	696,000	289,100	302,000	39,800	65,100
<30	9,000	3,800	4,600	300	400
30-39	152,000	68,200	67,900	5,600	10,300
40-49	219,800	91,900	93,100	12,200	22,600
50-59	226,600	90,200	95,400	16,900	24,100
60+	88,700	35,100	41,000	4,800	7,700

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Table C-3. Employed U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment sector: 1997

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	580,300	250,100	254,500	18,800	56,900
<30	8,500	3,600	4,200	300	400
30-39	134,800	60,300	61,300	3,200	9,900
40-49	190,400	84,100	79,400	6,800	20,100
50-59	177,700	75,100	76,300	6,200	20,100
60+	68,900	27,000	33,200	2,400	6,300
Sciences, total	482,000	189,600	225,400	18,100	49,000
<30	6,000	1,900	3,700	300	200
30-39	105,800	41,600	53,400	3,000	7,800
40-49	163,900	67,200	71,800	6,600	18,300
50-59	149,800	58,100	68,300	5,900	17,500
60+	56,500	20,700	28,200	2,300	5,300
Computer/math sciences, total	36,900	13,100	21,000	1,100	1,600
<30	800	200	600	S	S
30-39	9,500	4,100	4,800	100	500
40-49	11,500	4,400	6,200	300	500
50-59	11,700	3,700	6,900	400	600
60+	3,400	700	2,500	200	100
Life/related sciences, total	162,500	54,200	85,500	5,600	17,100
<30	1,700	400	1,100	200	100
30-39	36,700	11,000	22,100	900	2,800
40-49	60,800	21,100	30,700	2,300	6,700
50-59	45,700	15,600	22,900	1,400	5,900
60+	17,500	6,200	8,700	900	1,700
Physical/related sciences, total	122,200	62,700	42,700	3,500	13,300
<30	1,800	800	900	S	100
30-39	31,000	16,500	11,400	900	2,300
40-49	34,600	19,100	10,800	1,000	3,700
50-59	38,400	19,400	12,800	1,200	5,000
60+	16,400	6,900	6,900	400	2,200
Social/related sciences, total	160,500	59,500	76,100	7,900	16,900
<30	1,700	600	1,100	S	S
30-39	28,600	10,000	15,100	1,200	2,300
40-49	57,000	22,500	24,000	3,000	7,400
50-59	54,000	19,400	25,800	2,900	6,000
60+	19,100	7,000	10,100	800	1,300
Engineering, total	98,200	60,500	29,100	700	7,900
<30	2,500	1,700	600	S	200
30-39	29,000	18,700	7,900	200	2,200
40-49	26,500	16,900	7,600	100	1,800
50-59	27,900	16,900	8,000	300	2,600
60+	12,300	6,300	4,900	100	1,000

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: 1997

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	115,800	39,000	47,500	21,000	8,300
<30	500	200	300	S	S
30-39	17,200	7,900	6,600	2,400	400
40-49	29,400	7,800	13,700	5,500	2,500
50-59	48,800	15,100	19,100	10,700	4,000
60+	19,800	8,100	7,900	2,500	1,400

¹ Includes professional degrees

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)