

Table B-4. U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment status: 1997

Level and field of highest degree, and age	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
All degree levels¹								
All degree fields, total	12,530,700	10,585,600	9,476,700	1,109,000	193,700	1,751,400	1,005,100	746,300
<30	1,696,700	1,478,800	1,306,500	172,300	35,600	182,300	400	182,000
30-39	3,052,400	2,816,000	2,586,000	230,000	37,000	199,500	2,300	197,200
40-49	3,697,500	3,443,100	3,137,100	306,000	55,200	199,200	12,600	186,600
50-59	2,341,800	2,103,600	1,926,500	177,200	37,100	201,100	95,400	105,600
60+	1,742,200	744,100	520,600	223,500	28,800	969,300	894,400	74,900
S&E degree fields, total	9,269,200	7,704,000	6,891,200	812,800	150,500	1,414,700	787,500	627,200
<30	1,558,800	1,350,200	1,185,800	164,400	33,500	175,100	400	174,700
30-39	2,277,100	2,082,200	1,915,000	167,100	29,400	165,500	2,300	163,200
40-49	2,535,900	2,343,900	2,137,100	206,800	40,500	151,400	8,300	143,100
50-59	1,600,800	1,418,700	1,297,500	121,200	26,700	155,400	72,700	82,700
60+	1,296,700	508,900	355,700	153,200	20,400	767,300	703,900	63,400
Sciences, total	6,977,800	5,794,700	5,093,400	701,300	115,700	1,067,300	498,400	569,000
<30	1,281,400	1,091,700	941,100	150,600	28,000	161,700	300	161,400
30-39	1,632,300	1,464,100	1,319,900	144,200	22,500	145,700	2,000	143,800
40-49	2,007,800	1,835,300	1,640,200	195,000	33,000	139,600	7,400	132,200
50-59	1,229,400	1,076,800	971,100	105,600	19,500	133,200	58,700	74,500
60+	826,800	327,000	221,100	105,800	12,700	487,200	430,100	57,100
Computer/math sciences, total	1,136,000	1,003,300	925,300	78,000	16,700	116,000	63,000	53,000
<30	152,400	144,300	134,400	10,000	2,200	5,900	S	5,900
30-39	386,600	359,900	338,300	21,500	4,500	22,200	400	21,800
40-49	310,600	290,200	265,400	24,800	4,800	15,600	1,600	14,000
50-59	196,400	173,900	160,500	13,400	3,500	19,000	12,200	6,800
60+	90,000	35,000	26,700	8,200	1,700	53,400	48,900	4,500
Life/related sciences, total	1,475,600	1,204,700	1,061,800	142,800	23,300	247,600	103,900	143,700
<30	282,800	208,300	180,000	28,300	8,400	66,100	200	65,900
30-39	325,100	290,000	257,200	32,800	4,100	31,000	400	30,600
40-49	463,000	429,800	390,500	39,300	5,700	27,500	1,400	26,100
50-59	238,700	211,900	191,900	20,000	3,000	23,800	10,500	13,300
60+	166,000	64,700	42,200	22,500	2,200	99,200	91,400	7,800
Physical/related sciences, total	773,200	619,200	559,100	60,100	12,400	141,600	92,500	49,100
<30	90,900	77,500	66,700	10,800	1,500	11,800	S	11,800
30-39	168,600	154,600	145,800	8,700	2,100	11,900	S	11,900
40-49	202,400	189,500	177,300	12,200	3,000	10,000	700	9,200
50-59	153,800	135,500	125,100	10,400	3,700	14,600	8,200	6,300
60+	157,500	62,100	44,100	18,000	2,100	93,300	83,600	9,800
Social/related sciences, total	3,593,000	2,967,600	2,547,200	420,400	63,300	562,100	238,900	323,300
<30	755,400	661,600	559,900	101,600	15,900	77,800	100	77,800
30-39	752,000	659,600	578,500	81,100	11,800	80,600	1,200	79,400
40-49	1,031,800	925,800	807,100	118,800	19,500	86,500	3,600	82,900
50-59	640,600	555,400	493,600	61,800	9,200	75,900	27,800	48,100
60+	413,300	165,200	108,100	57,100	6,800	241,300	206,200	35,100
Engineering, total	2,291,400	1,909,200	1,797,700	111,500	34,800	347,300	289,200	58,200
<30	277,300	258,500	244,800	13,700	5,400	13,400	100	13,300
30-39	644,800	618,100	595,200	22,900	6,900	19,800	300	19,500
40-49	528,000	508,700	496,900	11,800	7,500	11,800	900	11,000
50-59	371,400	341,900	326,300	15,600	7,200	22,200	14,000	8,200
60+	469,900	182,000	134,600	47,400	7,800	280,100	273,900	6,300

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

Table B-4. U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment status: 1997

Level and field of highest degree, and age	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
All degree levels¹ — continued								
Non-S&E degree fields, total	3,261,500	2,881,700	2,585,500	296,200	43,200	336,700	217,600	119,100
<30	137,900	128,600	120,700	7,900	2,100	7,200	S	7,200
30-39	775,400	733,800	670,900	62,900	7,600	34,000	S	34,000
40-49	1,161,700	1,099,200	1,000,000	99,200	14,700	47,800	4,300	43,500
50-59	741,000	684,900	629,000	55,900	10,400	45,700	22,800	22,900
60+	445,600	235,200	164,900	70,300	8,400	202,000	190,500	11,500
Bachelor's								
All degree fields, total	7,469,000	6,193,700	5,545,400	648,300	125,200	1,150,100	604,800	545,300
<30	1,426,900	1,233,800	1,086,600	147,200	30,700	162,400	400	162,100
30-39	1,909,400	1,744,700	1,609,700	135,000	24,300	140,400	1,600	138,900
40-49	2,049,300	1,882,400	1,714,700	167,700	35,500	131,500	7,300	124,200
50-59	1,113,500	974,700	887,000	87,700	19,200	119,600	51,500	68,000
60+	969,800	358,100	247,400	110,700	15,500	596,200	544,000	52,200
S&E degree fields, total	6,906,400	5,683,700	5,076,700	607,000	117,000	1,105,700	579,400	526,300
<30	1,415,300	1,223,400	1,077,800	145,500	30,600	161,300	400	161,000
30-39	1,737,700	1,582,100	1,457,500	124,600	22,300	133,200	1,600	131,700
40-49	1,826,300	1,672,000	1,519,300	152,700	31,600	122,700	6,300	116,400
50-59	1,010,600	877,300	795,700	81,600	18,000	115,300	49,300	66,000
60+	916,600	329,000	226,400	102,600	14,400	573,200	521,800	51,400
Sciences, total	5,212,100	4,303,400	3,779,700	523,700	89,600	819,100	338,400	480,700
<30	1,185,300	1,008,100	873,400	134,700	25,900	151,300	300	151,100
30-39	1,270,000	1,134,100	1,026,300	107,800	17,800	118,100	1,300	116,800
40-49	1,455,200	1,316,100	1,170,400	145,700	25,600	113,400	5,700	107,700
50-59	761,900	651,100	580,600	70,500	12,900	97,900	39,000	58,900
60+	539,800	194,000	128,900	65,100	7,400	338,300	292,100	46,200
Computer/math sciences, total	817,000	721,600	667,500	54,100	11,400	83,900	40,800	43,200
<30	131,500	124,700	117,100	7,600	1,800	5,100	S	5,100
30-39	300,200	277,800	261,700	16,000	3,900	18,500	300	18,200
40-49	210,800	195,000	177,600	17,400	3,400	12,400	1,100	11,400
50-59	117,800	103,400	94,900	8,500	1,800	12,500	6,900	5,600
60+	56,800	20,800	16,100	4,700	600	35,400	32,400	2,900
Life/related sciences, total ...	1,090,600	884,500	774,200	110,300	17,200	189,000	67,800	121,200
<30	266,000	196,500	169,800	26,700	7,600	62,000	200	61,800
30-39	241,600	215,200	191,800	23,500	2,600	23,800	S	23,800
40-49	337,300	312,300	281,200	31,100	3,900	21,200	900	20,400
50-59	139,700	123,100	108,700	14,300	1,300	15,300	6,100	9,200
60+	106,000	37,500	22,700	14,800	1,800	66,700	60,600	6,100
Physical/related sciences, total	489,000	381,900	341,700	40,200	8,000	99,200	60,900	38,300
<30	79,400	67,500	58,000	9,400	1,300	10,600	S	10,600
30-39	105,700	95,600	90,700	5,000	1,500	8,600	S	8,600
40-49	125,900	116,300	107,900	8,400	2,000	7,600	600	7,000
50-59	78,900	67,700	60,800	6,900	2,400	8,900	4,100	4,800
60+	99,100	34,800	24,300	10,500	800	63,500	56,200	7,200

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

Table B-4. U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment status: 1997

Level and field of highest degree, and age	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Bachelor's — continued								
Social/related sciences, total	2,815,500	2,315,500	1,996,400	319,100	52,900	447,000	168,900	278,100
<30	708,400	619,600	528,500	91,000	15,200	73,700	100	73,600
30-39	622,500	545,400	482,100	63,300	9,800	67,200	1,000	66,200
40-49	781,200	692,600	603,700	88,900	16,400	72,200	3,200	69,000
50-59	425,400	357,000	316,200	40,800	7,300	61,200	21,900	39,300
60+	278,000	101,000	65,900	35,100	4,200	172,700	142,800	29,900
Engineering, total	1,694,300	1,380,300	1,297,000	83,300	27,400	286,600	241,000	45,600
<30	229,900	215,200	204,400	10,800	4,700	10,000	100	9,900
30-39	467,700	448,100	431,200	16,800	4,600	15,100	200	14,900
40-49	371,100	355,900	348,800	7,000	6,000	9,300	600	8,700
50-59	248,700	226,200	215,100	11,100	5,200	17,400	10,300	7,100
60+	376,800	135,000	97,500	37,500	7,000	234,900	229,700	5,200
Non-S&E degree fields, total	562,600	510,000	468,700	41,300	8,200	44,400	25,400	19,000
<30	11,700	10,400	8,800	1,600	100	1,100	S	1,100
30-39	171,800	162,600	152,200	10,400	2,000	7,200	S	7,200
40-49	223,000	210,400	195,400	15,000	3,900	8,800	1,000	7,800
50-59	102,900	97,500	91,300	6,100	1,200	4,300	2,200	2,100
60+	53,200	29,100	20,900	8,100	1,100	23,100	22,200	800
Master's								
All degree fields, total	3,316,800	2,819,800	2,503,300	316,500	52,300	444,700	289,600	155,100
<30	206,200	186,100	163,000	23,200	3,100	16,900	S	16,900
30-39	741,400	686,800	621,700	65,100	8,900	45,700	700	45,000
40-49	1,052,800	983,800	890,000	93,800	16,100	52,900	3,600	49,300
50-59	818,600	739,200	678,500	60,700	14,700	64,800	37,200	27,600
60+	497,700	223,900	150,200	73,700	9,500	264,300	248,100	16,200
S&E degree fields, total	1,698,100	1,431,600	1,273,100	158,500	25,400	241,100	154,900	86,200
<30	133,400	118,100	99,800	18,200	2,300	13,100	S	13,100
30-39	396,700	362,800	328,900	33,900	5,500	28,300	700	27,600
40-49	509,100	478,900	436,000	42,900	6,500	23,700	1,600	22,100
50-59	401,300	361,600	333,900	27,600	6,300	33,400	20,100	13,300
60+	257,600	110,300	74,500	35,800	4,700	142,600	132,500	10,100
Sciences, total	1,209,600	1,001,000	866,400	134,600	19,400	189,200	114,200	75,000
<30	88,600	77,200	61,900	15,400	1,600	9,800	S	9,800
30-39	249,600	221,800	193,300	28,400	3,600	24,200	700	23,500
40-49	379,500	352,600	314,100	38,500	5,300	21,500	1,500	20,000
50-59	307,700	273,700	249,200	24,400	4,700	29,300	16,900	12,500
60+	184,300	75,700	47,800	27,900	4,100	104,500	95,200	9,300
Computer/math sciences, total	278,900	244,700	222,800	21,800	4,900	29,300	20,100	9,200
<30	19,900	18,900	16,500	2,400	200	800	S	800
30-39	76,800	72,600	67,500	5,100	700	3,600	S	3,500
40-49	87,800	83,600	76,700	6,900	1,400	2,800	500	2,300
50-59	66,500	58,700	54,300	4,500	1,600	6,100	5,100	1,000
60+	27,800	10,800	7,900	2,900	1,000	16,000	14,500	1,500
Life/related sciences, total ...	197,000	156,600	136,500	20,100	3,200	37,200	20,100	17,100
<30	13,800	9,800	8,500	1,300	400	3,600	S	3,600
30-39	43,900	37,300	30,400	6,900	1,000	5,600	400	5,200
40-49	62,400	56,800	51,800	5,000	1,000	4,600	500	4,100
50-59	50,400	43,100	40,400	2,700	800	6,500	3,500	3,000
60+	26,500	9,700	5,400	4,300	S	16,800	15,700	1,200

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

Table B-4. U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment status: 1997

Level and field of highest degree, and age	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Master's — continued								
Physical/related sciences, total	142,700	114,500	102,000	12,600	2,400	25,700	17,800	7,900
<30	9,600	8,300	7,000	1,200	200	1,200	S	1,200
30-39	30,400	27,700	25,200	2,500	200	2,500	S	2,500
40-49	40,700	38,600	35,700	2,900	400	1,700	100	1,600
50-59	33,700	29,200	27,300	1,800	800	3,700	3,100	600
60+	28,300	10,800	6,700	4,100	800	16,700	14,600	2,100
Social/related sciences, total	591,100	485,300	405,100	80,100	8,800	97,000	56,200	40,900
<30	45,200	40,300	29,900	10,400	800	4,100	S	4,100
30-39	98,500	84,200	70,300	14,000	1,700	12,500	200	12,400
40-49	188,600	173,700	150,000	23,700	2,500	12,400	400	12,000
50-59	157,100	142,700	127,200	15,500	1,500	13,000	5,100	7,900
60+	101,700	44,400	27,800	16,600	2,300	55,000	50,500	4,500
Engineering, total	488,500	430,600	406,700	23,900	6,000	51,900	40,700	11,200
<30	44,800	40,800	37,900	2,900	600	3,300	S	3,300
30-39	147,100	141,000	135,600	5,500	1,900	4,200	100	4,100
40-49	129,600	126,200	121,800	4,400	1,200	2,200	100	2,100
50-59	93,600	87,900	84,700	3,200	1,600	4,100	3,200	800
60+	73,300	34,700	26,700	7,900	600	38,100	37,300	800
Non-S&E degree fields, total	1,618,700	1,388,200	1,230,200	158,000	26,900	203,600	134,700	68,900
<30	72,800	68,100	63,100	4,900	900	3,900	S	3,900
30-39	344,700	324,000	292,800	31,200	3,400	17,400	S	17,400
40-49	543,700	505,000	454,000	51,000	9,600	29,200	2,000	27,200
50-59	417,300	377,600	344,500	33,100	8,400	31,400	17,100	14,300
60+	240,100	113,600	75,700	37,800	4,800	121,700	115,600	6,200
Doctorate								
All degree fields, total	790,500	696,000	637,400	58,700	9,800	84,600	67,700	16,900
<30	10,500	9,000	8,100	900	1,000	500	S	500
30-39	157,600	152,000	143,700	8,300	1,700	3,900	S	3,900
40-49	228,300	219,800	205,600	14,300	2,400	6,100	300	5,800
50-59	237,100	226,600	210,400	16,200	2,900	7,700	3,600	4,100
60+	157,000	88,700	69,600	19,100	1,900	66,500	63,800	2,600
S&E degree fields, total	654,900	580,300	534,300	46,000	8,200	66,500	52,600	13,800
<30	9,600	8,500	7,900	600	600	500	S	500
30-39	140,100	134,800	126,900	7,900	1,500	3,800	S	3,800
40-49	197,300	190,400	179,300	11,100	2,400	4,500	300	4,200
50-59	186,800	177,700	166,000	11,700	2,400	6,700	3,200	3,500
60+	121,100	68,900	54,200	14,600	1,300	51,000	49,100	1,900
Sciences, total	546,400	482,000	440,400	41,700	6,800	57,600	45,200	12,500
<30	7,000	6,000	5,400	600	600	400	S	400
30-39	110,100	105,800	98,500	7,300	1,100	3,200	S	3,200
40-49	170,200	163,900	153,200	10,700	2,000	4,200	200	4,000
50-59	157,700	149,800	139,400	10,400	1,900	5,900	2,800	3,200
60+	101,400	56,500	43,900	12,700	1,100	43,800	42,200	1,600

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

Table B-4. U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment status: 1997

Level and field of highest degree, and age	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
Doctorate — continued								
Computer/math sciences, total	39,900	36,900	34,900	2,000	400	2,700	2,200	500
<30	1,000	800	800	S	200	S	S	S
30-39	9,600	9,500	9,100	400	S	100	S	100
40-49	11,800	11,500	11,100	400	100	200	S	200
50-59	12,000	11,700	11,200	500	100	300	200	100
60+	5,500	3,400	2,800	600	S	2,000	2,000	100
Life/related sciences, total ...	186,500	162,500	150,600	11,900	2,900	21,100	16,000	5,100
<30	2,500	1,700	1,500	300	400	400	S	400
30-39	38,600	36,700	34,700	2,000	400	1,400	S	1,400
40-49	63,300	60,800	57,600	3,200	800	1,700	100	1,600
50-59	48,600	45,700	42,800	3,000	900	1,900	800	1,100
60+	33,600	17,500	14,100	3,400	400	15,700	15,100	600
Physical/related sciences, total	140,800	122,200	114,900	7,300	2,000	16,700	13,800	2,900
<30	1,800	1,800	1,700	100	100	S	S	S
30-39	32,200	31,000	29,800	1,200	400	800	S	800
40-49	35,900	34,600	33,700	1,000	500	700	S	700
50-59	40,900	38,400	36,700	1,700	500	2,000	1,000	1,000
60+	30,000	16,400	13,100	3,400	400	13,100	12,700	400
Social/related sciences, total	179,200	160,500	139,900	20,600	1,500	17,200	13,200	4,000
<30	1,700	1,700	1,600	200	S	S	S	S
30-39	29,700	28,600	24,900	3,700	300	900	S	900
40-49	59,200	57,000	50,800	6,200	600	1,600	100	1,500
50-59	56,200	54,000	48,800	5,200	400	1,700	700	1,000
60+	32,400	19,100	13,900	5,300	200	13,000	12,300	600
Engineering, total	108,500	98,200	93,900	4,300	1,400	8,800	7,500	1,400
<30	2,600	2,500	2,400	S	S	100	S	100
30-39	30,000	29,000	28,400	600	400	500	S	500
40-49	27,200	26,500	26,100	400	300	300	100	200
50-59	29,100	27,900	26,600	1,300	400	800	500	300
60+	19,700	12,300	10,400	2,000	200	7,200	6,900	300
Non-S&E degree fields, total	135,600	115,800	103,100	12,700	1,600	18,100	15,100	3,100
<30	900	500	200	300	300	S	S	S
30-39	17,500	17,200	16,800	400	200	100	S	100
40-49	31,000	29,400	26,300	3,100	S	1,600	S	1,600
50-59	50,300	48,800	44,400	4,500	500	1,000	300	700
60+	35,800	19,800	15,400	4,400	600	15,500	14,700	700

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)