

Table B-4. U.S. scientists and engineers, by level and broad field of highest degree attained, age, and employment status: 1999

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	13,050,800	10,981,600	9,793,300	1,188,400	194,400	1,874,800	1,092,900	781,900
<30	1,772,200	1,534,200	1,367,300	166,900	37,400	200,700	800	199,800
30-39	2,949,800	2,718,200	2,487,700	230,500	33,300	198,300	3,400	195,000
40-49	3,684,600	3,426,400	3,101,500	324,900	44,800	213,400	16,700	196,700
50-59	2,765,600	2,477,400	2,253,200	224,200	50,800	237,400	117,300	120,000
60+	1,878,700	825,500	583,600	241,900	28,100	1,025,100	954,700	70,400
S&E degree fields, total	9,614,400	7,980,100	7,124,200	855,900	151,300	1,483,000	833,900	649,100
<30	1,611,400	1,383,600	1,226,700	156,900	35,600	192,100	800	191,300
30-39	2,241,600	2,047,200	1,880,300	166,900	26,900	167,500	3,400	164,200
40-49	2,538,400	2,349,600	2,125,600	224,000	32,500	156,300	12,700	143,700
50-59	1,856,600	1,643,400	1,498,100	145,300	35,000	178,100	85,300	92,800
60+	1,366,400	556,300	393,500	162,800	21,200	788,900	731,700	57,200
Sciences, total	7,291,100	6,043,700	5,294,900	748,800	120,100	1,127,300	537,600	589,800
<30	1,337,500	1,126,700	982,800	143,900	31,800	179,000	800	178,100
30-39	1,635,900	1,469,100	1,322,100	147,000	22,500	144,300	2,400	141,900
40-49	1,965,000	1,796,900	1,586,400	210,500	25,600	142,500	11,000	131,600
50-59	1,453,600	1,276,600	1,146,800	129,800	26,400	150,600	64,000	86,600
60+	899,000	374,300	256,900	117,400	13,800	511,000	459,400	51,600
Computer/math sciences, total	1,185,600	1,045,800	957,800	88,000	13,100	126,700	71,000	55,700
<30	147,300	138,800	129,500	9,300	800	7,700	100	7,600
30-39	367,900	347,100	324,700	22,400	3,600	17,300	100	17,100
40-49	332,900	310,400	286,900	23,500	3,200	19,400	1,800	17,500
50-59	229,700	204,000	182,400	21,600	4,300	21,500	12,700	8,700
60+	107,700	45,600	34,400	11,200	1,200	60,900	56,200	4,700
Life/related sciences, total	1,582,900	1,287,700	1,136,900	150,800	24,000	271,200	111,300	159,900
<30	329,900	245,900	212,600	33,400	9,300	74,700	S	74,700
30-39	323,300	291,200	261,900	29,300	3,900	28,200	300	27,900
40-49	457,000	418,600	372,500	46,100	6,700	31,700	1,200	30,500
50-59	292,700	261,700	240,200	21,600	1,900	29,000	10,200	18,800
60+	180,000	70,300	49,800	20,500	2,200	107,600	99,600	8,000
Physical/related sciences, total	777,400	621,700	562,700	59,000	13,600	142,100	99,500	42,500
<30	90,500	77,900	68,600	9,300	1,300	11,300	S	11,300
30-39	155,000	143,600	134,500	9,100	1,600	9,800	500	9,300
40-49	202,800	190,000	176,800	13,300	3,600	9,100	1,600	7,500
50-59	159,400	140,600	131,700	8,900	3,700	15,000	9,100	5,900
60+	169,700	69,500	51,100	18,400	3,300	96,800	88,300	8,600
Social/related sciences, total	3,745,200	3,088,400	2,637,500	450,900	69,400	587,400	255,700	331,700
<30	769,800	664,100	572,200	91,900	20,400	85,400	700	84,600
30-39	789,700	687,300	601,000	86,300	13,400	89,000	1,400	87,600
40-49	972,300	877,900	750,200	127,700	12,100	82,300	6,300	76,000
50-59	771,800	670,300	592,500	77,800	16,500	85,100	31,900	53,100
60+	441,600	188,800	121,600	67,300	7,000	245,700	215,400	30,300
Engineering, total	2,323,300	1,936,400	1,829,200	107,100	31,200	355,700	296,400	59,300
<30	273,800	256,900	243,900	13,000	3,800	13,200	S	13,200
30-39	605,700	578,100	558,200	19,800	4,500	23,200	1,000	22,200
40-49	573,400	552,700	539,200	13,500	7,000	13,800	1,700	12,100
50-59	402,900	366,800	351,300	15,500	8,600	27,600	21,400	6,200
60+	467,400	182,000	136,700	45,300	7,400	278,000	272,300	5,600

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: 1999

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	3,436,400	3,001,500	2,669,100	332,400	43,100	391,800	259,000	132,800
<30	160,800	150,500	140,600	9,900	1,800	8,500	S	8,500
30-39	708,200	671,000	607,300	63,600	6,400	30,800	S	30,800
40-49	1,146,100	1,076,800	975,900	100,900	12,300	57,100	4,000	53,000
50-59	909,000	834,000	755,100	78,900	15,800	59,200	32,000	27,200
60+	512,200	269,200	190,100	79,100	6,900	236,100	222,900	13,200
Bachelor's								
All degree fields, total	7,682,100	6,350,100	5,669,800	680,300	125,800	1,206,200	639,100	567,100
<30	1,476,700	1,263,200	1,119,100	144,100	33,800	179,700	700	179,000
30-39	1,831,400	1,666,600	1,532,700	133,900	21,200	143,600	2,800	140,700
40-49	2,052,000	1,889,700	1,704,000	185,700	27,400	134,800	9,500	125,400
50-59	1,323,400	1,153,600	1,048,900	104,700	28,000	141,800	67,000	74,900
60+	998,600	377,000	265,100	111,900	15,400	606,200	559,100	47,100
S&E degree fields, total	7,131,300	5,866,100	5,230,700	635,400	116,300	1,148,900	604,200	544,700
<30	1,465,700	1,253,300	1,110,400	142,900	33,500	178,900	700	178,200
30-39	1,699,400	1,542,200	1,419,100	123,100	19,900	137,300	2,800	134,500
40-49	1,833,600	1,685,400	1,515,400	170,000	24,100	124,200	9,200	115,000
50-59	1,196,500	1,038,500	943,800	94,800	24,500	133,400	61,700	71,700
60+	936,100	346,700	242,000	104,700	14,300	575,100	529,700	45,400
Sciences, total	5,441,700	4,486,100	3,929,200	556,900	95,300	860,300	358,100	502,200
<30	1,238,600	1,038,900	906,600	132,400	30,400	169,300	700	168,600
30-39	1,277,500	1,139,700	1,030,800	108,900	17,500	120,300	2,000	118,300
40-49	1,430,000	1,295,300	1,134,200	161,100	19,500	115,200	8,100	107,100
50-59	927,000	796,200	711,300	84,900	18,300	112,500	45,500	66,900
60+	568,500	215,900	146,300	69,700	9,500	343,100	301,700	41,400
Computer/math sciences, total	845,300	742,700	685,700	57,000	9,100	93,500	47,100	46,500
<30	124,700	117,800	110,300	7,500	600	6,300	S	6,300
30-39	283,900	266,800	250,100	16,800	2,800	14,300	S	14,300
40-49	229,700	211,100	195,700	15,400	2,500	16,200	1,200	14,900
50-59	142,600	123,100	110,200	12,900	2,700	16,800	9,300	7,500
60+	64,400	23,900	19,400	4,500	500	40,000	36,600	3,500
Life/related sciences, total ...	1,177,300	947,000	826,700	120,300	19,000	211,300	74,600	136,800
<30	312,200	232,800	200,300	32,500	9,300	70,100	S	70,100
30-39	239,100	213,500	192,400	21,100	2,700	23,000	300	22,800
40-49	333,300	302,300	265,000	37,400	4,800	26,200	800	25,300
50-59	178,900	159,500	144,200	15,300	700	18,700	6,300	12,400
60+	113,800	38,900	24,900	14,000	1,600	73,300	67,100	6,200
Physical/related sciences, total	486,200	380,900	341,700	39,200	9,600	95,700	63,100	32,600
<30	79,100	67,700	59,200	8,500	1,300	10,100	S	10,100
30-39	98,100	89,900	84,300	5,600	1,100	7,100	500	6,600
40-49	124,000	115,500	105,800	9,700	2,500	6,100	700	5,300
50-59	82,000	69,700	64,300	5,400	2,500	9,800	6,000	3,900
60+	103,000	38,100	28,200	10,000	2,300	62,600	55,900	6,700

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: 1999

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	2,932,900	2,415,500	2,075,100	340,400	57,600	459,800	173,400	286,400
<30	722,700	620,600	536,800	83,800	19,300	82,800	700	82,100
30-39	656,400	569,500	504,100	65,400	11,000	75,800	1,200	74,600
40-49	743,000	666,400	567,700	98,700	9,800	66,800	5,300	61,500
50-59	523,500	443,900	392,700	51,300	12,400	67,200	24,000	43,200
60+	287,300	115,000	73,800	41,200	5,100	167,200	142,200	25,000
Engineering, total	1,689,600	1,380,000	1,301,500	78,500	21,000	288,600	246,100	42,500
<30	227,100	214,400	203,900	10,500	3,100	9,600	S	9,600
30-39	421,800	402,500	388,200	14,200	2,300	17,000	800	16,200
40-49	403,600	390,100	381,200	8,900	4,500	9,000	1,100	7,900
50-59	269,500	242,300	232,500	9,800	6,200	21,000	16,200	4,800
60+	367,600	130,700	95,700	35,000	4,800	232,000	228,000	4,100
Non-S&E degree fields, total	550,800	484,000	439,100	44,800	9,500	57,300	35,000	22,300
<30	11,000	9,900	8,700	1,200	300	800	S	800
30-39	132,000	124,400	113,600	10,800	1,300	6,300	S	6,300
40-49	218,300	204,300	188,600	15,700	3,300	10,700	300	10,400
50-59	126,900	115,100	105,200	9,900	3,400	8,400	5,300	3,200
60+	62,500	30,300	23,100	7,200	1,100	31,100	29,400	1,600
Master's								
All degree fields, total	3,535,900	2,982,000	2,630,100	351,900	53,900	500,000	328,600	171,300
<30	222,800	202,200	180,900	21,300	2,500	18,100	100	18,000
30-39	743,500	689,400	619,800	69,600	9,800	44,200	500	43,700
40-49	1,044,200	969,100	870,600	98,500	14,500	60,700	5,100	55,600
50-59	957,900	863,900	783,500	80,400	18,300	75,700	40,200	35,500
60+	567,400	257,400	175,300	82,000	8,800	301,200	282,800	18,500
S&E degree fields, total	1,775,600	1,491,200	1,317,700	173,500	26,200	258,100	169,700	88,500
<30	134,700	119,800	106,000	13,900	2,000	12,800	100	12,700
30-39	398,100	366,300	329,400	36,900	5,500	26,300	500	25,800
40-49	500,100	466,900	423,600	43,300	6,300	26,900	3,100	23,700
50-59	455,200	411,800	372,900	38,900	7,400	36,000	19,200	16,800
60+	287,600	126,400	85,900	40,500	5,000	156,200	146,700	9,400
Sciences, total	1,259,900	1,040,400	891,000	149,400	17,800	201,700	128,700	73,000
<30	90,500	79,800	68,400	11,400	1,400	9,300	100	9,200
30-39	246,700	222,500	190,700	31,800	3,800	20,500	300	20,200
40-49	360,600	334,000	294,900	39,100	4,300	22,300	2,600	19,800
50-59	350,700	314,600	280,200	34,300	5,700	30,400	14,700	15,700
60+	211,400	89,600	56,900	32,700	2,600	119,200	111,000	8,200
Computer/math sciences, total	295,600	262,600	233,600	28,900	3,800	29,200	21,000	8,200
<30	21,000	19,500	17,700	1,700	200	1,300	100	1,200
30-39	74,200	70,600	65,200	5,300	800	2,800	100	2,700
40-49	89,900	86,500	78,800	7,700	600	2,800	600	2,100
50-59	74,000	68,400	60,400	8,000	1,500	4,100	3,100	1,000
60+	36,500	17,600	11,400	6,200	700	18,200	17,100	1,200
Life/related sciences, total ...	203,100	164,100	144,600	19,600	2,700	36,200	19,400	16,800
<30	15,000	10,700	9,800	800	S	4,300	S	4,300
30-39	41,900	37,800	31,000	6,800	800	3,400	100	3,300
40-49	59,800	54,900	48,800	6,200	1,300	3,600	300	3,300
50-59	57,600	49,500	46,100	3,400	400	7,700	2,800	4,900
60+	28,700	11,300	9,000	2,300	200	17,200	16,300	1,000

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: 1999

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	143,100	113,900	101,100	12,800	1,400	27,800	20,500	7,200
<30	9,200	8,000	7,200	800	100	1,100	S	1,100
30-39	26,700	24,300	21,600	2,700	300	2,100	S	2,100
40-49	40,100	37,400	34,600	2,700	500	2,200	800	1,400
50-59	36,500	33,100	30,900	2,100	200	3,200	1,900	1,300
60+	30,600	11,200	6,800	4,400	300	19,100	17,900	1,300
Social/related sciences, total	618,100	499,800	411,600	88,100	9,900	108,500	67,800	40,700
<30	45,300	41,700	33,600	8,100	1,100	2,600	S	2,600
30-39	103,900	89,800	72,900	17,000	2,000	12,100	200	12,000
40-49	170,800	155,100	132,600	22,500	1,900	13,700	900	12,800
50-59	182,600	163,600	142,800	20,700	3,600	15,400	6,900	8,500
60+	115,500	49,500	29,700	19,800	1,400	64,600	59,800	4,800
Engineering, total	515,700	450,800	426,700	24,100	8,400	56,500	41,000	15,500
<30	44,200	40,000	37,600	2,500	600	3,600	S	3,600
30-39	151,300	143,800	138,700	5,100	1,700	5,800	200	5,600
40-49	139,500	132,900	128,700	4,200	2,000	4,600	600	4,000
50-59	104,500	97,200	92,600	4,600	1,700	5,600	4,500	1,100
60+	76,200	36,800	29,000	7,800	2,400	37,000	35,800	1,200
Non-S&E degree fields, total	1,760,300	1,490,800	1,312,400	178,400	27,700	241,800	158,900	82,900
<30	88,200	82,300	75,000	7,400	600	5,300	S	5,300
30-39	345,400	323,200	290,400	32,800	4,300	17,900	S	17,900
40-49	544,200	502,200	447,000	55,200	8,100	33,800	1,900	31,900
50-59	502,700	452,100	410,600	41,500	10,900	39,800	21,000	18,800
60+	279,800	131,000	89,400	41,500	3,800	145,100	136,000	9,100
Doctorate								
All degree fields, total	839,000	736,700	672,400	64,300	9,100	93,300	75,500	17,700
<30	11,100	10,500	10,400	200	200	400	S	400
30-39	159,200	153,500	145,400	8,100	1,800	3,900	S	3,900
40-49	230,000	221,900	207,900	14,000	2,200	5,900	300	5,600
50-59	252,800	239,300	224,000	15,300	3,100	10,400	5,500	4,900
60+	186,000	111,400	84,700	26,700	1,900	72,700	69,700	3,000
S&E degree fields, total	698,500	614,600	567,700	46,800	8,800	75,100	59,600	15,500
<30	10,400	9,900	9,700	200	200	400	S	400
30-39	143,000	137,600	130,700	6,900	1,500	3,900	S	3,900
40-49	201,700	194,700	183,900	10,700	2,200	4,900	300	4,600
50-59	201,400	189,600	178,200	11,400	3,100	8,800	4,400	4,300
60+	141,800	82,800	65,200	17,600	1,900	57,200	54,800	2,300
Sciences, total	580,400	509,000	466,700	42,300	7,000	64,500	50,300	14,200
<30	7,900	7,400	7,300	200	S	400	S	400
30-39	110,500	105,800	99,500	6,400	1,100	3,500	S	3,500
40-49	171,400	165,000	154,700	10,400	1,700	4,600	300	4,300
50-59	172,500	162,400	152,000	10,400	2,400	7,700	3,700	4,000
60+	118,100	68,300	53,200	15,000	1,600	48,200	46,200	2,000

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: 1999

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	44,500	40,600	38,500	2,100	200	3,700	2,900	800
<30	1,600	1,500	1,400	100	S	100	S	100
30-39	9,900	9,700	9,400	300	S	100	S	100
40-49	13,100	12,800	12,300	400	100	300	S	300
50-59	13,100	12,400	11,800	600	100	600	400	200
60+	6,800	4,100	3,500	600	S	2,600	2,600	100
Life/related sciences, total ...	202,000	176,200	165,100	11,000	2,300	23,600	17,400	6,300
<30	2,700	2,500	2,500	S	S	200	S	200
30-39	42,000	39,800	38,400	1,400	500	1,800	S	1,800
40-49	63,600	61,100	58,500	2,600	600	1,900	100	1,800
50-59	56,200	52,700	49,900	2,800	800	2,600	1,000	1,600
60+	37,500	20,100	15,900	4,200	400	17,000	16,200	800
Physical/related sciences, total	147,000	125,900	118,800	7,100	2,600	18,600	15,900	2,700
<30	2,300	2,300	2,200	100	S	100	S	100
30-39	29,700	28,900	28,100	800	300	500	S	500
40-49	38,600	37,200	36,300	900	600	800	100	700
50-59	40,300	37,300	35,900	1,400	1,000	2,100	1,300	800
60+	36,000	20,200	16,200	4,000	700	15,100	14,600	600
Social/related sciences, total	186,800	166,400	144,200	22,100	1,900	18,600	14,100	4,500
<30	1,200	1,200	1,200	S	S	S	S	S
30-39	28,900	27,500	23,500	3,900	400	1,000	S	1,000
40-49	56,000	54,000	47,500	6,400	500	1,600	100	1,500
50-59	62,900	60,000	54,400	5,600	500	2,400	1,100	1,400
60+	37,800	23,800	17,600	6,200	500	13,500	12,900	600
Engineering, total	118,100	105,600	101,100	4,500	1,900	10,600	9,300	1,300
<30	2,600	2,500	2,500	S	100	S	S	S
30-39	32,600	31,800	31,200	500	400	400	S	400
40-49	30,300	29,600	29,200	400	400	300	S	300
50-59	28,900	27,200	26,200	1,000	700	1,000	700	300
60+	23,700	14,500	11,900	2,600	300	8,900	8,600	300
Non-S&E degree fields, total	140,600	122,100	104,600	17,500	200	18,200	16,000	2,200
<30	600	600	600	S	S	S	S	S
30-39	16,200	15,900	14,700	1,200	200	S	S	S
40-49	28,200	27,300	24,000	3,300	S	1,000	S	1,000
50-59	51,300	49,600	45,800	3,800	S	1,700	1,100	600
60+	44,200	28,700	19,500	9,100	S	15,500	14,900	600

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)