

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
All degree levels and fields <sup>a</sup>	21,647,000	18,021,000	15,978,000	2,043,000	595,000	3,031,000	1,613,000	1,419,000
<30	2,492,000	2,152,000	1,918,000	234,000	83,000	257,000	S	257,000
30-39	5,617,000	5,004,000	4,482,000	522,000	150,000	462,000	4,000	458,000
40-49	5,873,000	5,316,000	4,776,000	539,000	154,000	403,000	30,000	373,000
50-59	4,772,000	4,177,000	3,797,000	381,000	134,000	461,000	230,000	231,000
60+	2,894,000	1,372,000	1,005,000	367,000	74,000	1,448,000	1,349,000	99,000
S&E fields	11,880,000	9,579,000	8,610,000	969,000	414,000	1,886,000	973,000	913,000
<30	1,772,000	1,491,000	1,315,000	176,000	68,000	213,000	S	213,000
30-39	3,124,000	2,725,000	2,511,000	214,000	101,000	298,000	2,000	295,000
40-49	2,990,000	2,661,000	2,425,000	236,000	105,000	224,000	21,000	204,000
50-59	2,379,000	2,020,000	1,856,000	164,000	91,000	268,000	133,000	135,000
60+	1,615,000	683,000	504,000	179,000	49,000	883,000	817,000	66,000
Sciences	9,048,000	7,245,000	6,404,000	842,000	308,000	1,494,000	667,000	828,000
<30	1,462,000	1,209,000	1,053,000	156,000	56,000	197,000	S	197,000
30-39	2,380,000	2,028,000	1,834,000	193,000	80,000	272,000	2,000	270,000
40-49	2,211,000	1,940,000	1,731,000	209,000	74,000	197,000	18,000	179,000
50-59	1,895,000	1,593,000	1,443,000	150,000	68,000	234,000	107,000	127,000
60+	1,100,000	475,000	342,000	133,000	31,000	595,000	539,000	55,000
Biological/agricultural/environmental life sciences	1,851,000	1,481,000	1,331,000	150,000	50,000	320,000	132,000	188,000
<30	373,000	285,000	249,000	35,000	10,000	78,000	S	78,000
30-39	431,000	366,000	335,000	31,000	12,000	54,000	S	54,000
40-49	477,000	434,000	391,000	42,000	12,000	32,000	1,000	31,000
50-59	355,000	311,000	290,000	21,000	12,000	31,000	14,000	17,000
60+	215,000	86,000	65,000	20,000	4,000	125,000	117,000	9,000
Computer/mathematical sciences	1,703,000	1,437,000	1,318,000	119,000	75,000	191,000	83,000	108,000
<30	247,000	222,000	200,000	22,000	8,000	17,000	S	17,000
30-39	542,000	481,000	443,000	39,000	23,000	37,000	S	37,000
40-49	488,000	437,000	411,000	26,000	24,000	27,000	2,000	26,000
50-59	291,000	235,000	217,000	18,000	15,000	41,000	17,000	24,000
60+	135,000	62,000	48,000	14,000	4,000	69,000	64,000	4,000
Physical/related sciences	876,000	694,000	631,000	63,000	27,000	155,000	106,000	50,000
<30	90,000	78,000	69,000	9,000	2,000	10,000	S	10,000
30-39	182,000	159,000	153,000	7,000	5,000	18,000	S	18,000
40-49	235,000	214,000	199,000	15,000	6,000	14,000	S	13,000
50-59	185,000	166,000	152,000	14,000	6,000	12,000	8,000	4,000
60+	185,000	76,000	58,000	18,000	7,000	102,000	96,000	6,000
Social/related sciences	4,618,000	3,633,000	3,124,000	510,000	157,000	828,000	346,000	482,000
<30	752,000	624,000	535,000	90,000	36,000	92,000	S	92,000
30-39	1,225,000	1,021,000	904,000	117,000	40,000	163,000	S	162,000

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
40-49	1,011,000	855,000	730,000	126,000	32,000	124,000	14,000	109,000
50-59	1,065,000	881,000	784,000	97,000	33,000	150,000	68,000	82,000
60+	565,000	251,000	171,000	80,000	16,000	298,000	262,000	36,000
Engineering	2,832,000	2,334,000	2,207,000	127,000	106,000	392,000	307,000	85,000
<30	310,000	282,000	262,000	20,000	12,000	16,000	S	16,000
30-39	744,000	697,000	676,000	20,000	22,000	26,000	S	25,000
40-49	779,000	721,000	694,000	27,000	31,000	27,000	2,000	25,000
50-59	484,000	426,000	412,000	14,000	23,000	34,000	26,000	8,000
60+	515,000	208,000	162,000	46,000	18,000	289,000	278,000	11,000
S&E-related fields	5,203,000	4,383,000	3,679,000	704,000	84,000	736,000	386,000	351,000
<30	442,000	403,000	366,000	37,000	7,000	32,000	S	32,000
30-39	1,325,000	1,193,000	968,000	226,000	25,000	107,000	S	105,000
40-49	1,584,000	1,430,000	1,211,000	218,000	24,000	130,000	5,000	125,000
50-59	1,147,000	1,018,000	890,000	128,000	16,000	113,000	49,000	63,000
60+	706,000	339,000	244,000	95,000	13,000	354,000	330,000	25,000
Non-S&E fields	4,564,000	4,059,000	3,689,000	370,000	97,000	409,000	254,000	155,000
<30	279,000	258,000	237,000	21,000	8,000	13,000	S	13,000
30-39	1,168,000	1,086,000	1,003,000	83,000	24,000	58,000	S	58,000
40-49	1,299,000	1,225,000	1,140,000	85,000	25,000	49,000	4,000	44,000
50-59	1,246,000	1,140,000	1,051,000	89,000	27,000	79,000	48,000	32,000
60+	573,000	350,000	257,000	93,000	13,000	210,000	202,000	8,000
Bachelor's degrees	12,782,000	10,490,000	9,259,000	1,231,000	368,000	1,924,000	897,000	1,027,000
<30	1,915,000	1,633,000	1,447,000	186,000	64,000	217,000	S	217,000
30-39	3,477,000	3,064,000	2,720,000	344,000	91,000	322,000	4,000	319,000
40-49	3,449,000	3,071,000	2,725,000	346,000	96,000	283,000	22,000	261,000
50-59	2,490,000	2,135,000	1,933,000	201,000	76,000	280,000	119,000	161,000
60+	1,450,000	587,000	434,000	154,000	42,000	821,000	752,000	69,000
S&E fields	8,716,000	6,953,000	6,269,000	684,000	317,000	1,447,000	689,000	758,000
<30	1,553,000	1,298,000	1,152,000	146,000	60,000	195,000	S	195,000
30-39	2,347,000	2,030,000	1,872,000	158,000	77,000	241,000	S	238,000
40-49	2,153,000	1,890,000	1,714,000	177,000	82,000	181,000	18,000	163,000
50-59	1,622,000	1,346,000	1,241,000	105,000	65,000	211,000	98,000	112,000
60+	1,041,000	389,000	291,000	98,000	33,000	620,000	570,000	49,000
Sciences	6,666,000	5,276,000	4,677,000	599,000	239,000	1,152,000	451,000	701,000
<30	1,309,000	1,075,000	941,000	134,000	51,000	183,000	S	183,000
30-39	1,814,000	1,526,000	1,383,000	143,000	62,000	226,000	S	225,000
40-49	1,592,000	1,376,000	1,216,000	160,000	56,000	160,000	16,000	144,000
50-59	1,289,000	1,052,000	955,000	97,000	50,000	187,000	80,000	107,000
60+	662,000	247,000	181,000	65,000	20,000	396,000	354,000	42,000

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Biological/agricultural/environmental life sciences	1,369,000	1,082,000	967,000	115,000	39,000	249,000	85,000	164,000
<30	341,000	258,000	226,000	32,000	9,000	74,000	S	74,000
30-39	311,000	260,000	237,000	22,000	8,000	43,000	S	43,000
40-49	347,000	310,000	276,000	35,000	10,000	27,000	S	26,000
50-59	241,000	208,000	195,000	14,000	10,000	23,000	8,000	15,000
60+	130,000	46,000	34,000	12,000	2,000	82,000	77,000	5,000
Computer/mathematical sciences	1,202,000	1,010,000	927,000	83,000	49,000	143,000	55,000	88,000
<30	203,000	183,000	167,000	16,000	6,000	14,000	S	14,000
30-39	391,000	347,000	318,000	28,000	14,000	30,000	S	30,000
40-49	343,000	304,000	284,000	20,000	17,000	22,000	S	21,000
50-59	180,000	141,000	131,000	10,000	8,000	31,000	11,000	20,000
60+	85,000	36,000	27,000	9,000	3,000	45,000	42,000	3,000
Physical/related sciences	548,000	423,000	387,000	36,000	17,000	107,000	68,000	39,000
<30	76,000	66,000	59,000	7,000	2,000	8,000	S	8,000
30-39	114,000	96,000	93,000	4,000	4,000	14,000	S	14,000
40-49	146,000	132,000	122,000	10,000	4,000	11,000	S	10,000
50-59	109,000	96,000	88,000	9,000	4,000	8,000	6,000	2,000
60+	103,000	33,000	27,000	6,000	4,000	66,000	61,000	5,000
Social/related sciences	3,547,000	2,760,000	2,395,000	365,000	134,000	653,000	242,000	411,000
<30	688,000	568,000	490,000	78,000	33,000	86,000	S	86,000
30-39	998,000	823,000	735,000	88,000	36,000	139,000	S	137,000
40-49	757,000	630,000	534,000	96,000	26,000	101,000	12,000	88,000
50-59	760,000	607,000	542,000	65,000	28,000	125,000	55,000	71,000
60+	345,000	132,000	93,000	38,000	11,000	202,000	173,000	29,000
Engineering	2,050,000	1,677,000	1,592,000	85,000	78,000	295,000	238,000	57,000
<30	244,000	223,000	211,000	12,000	9,000	12,000	S	12,000
30-39	533,000	503,000	489,000	15,000	15,000	15,000	S	14,000
40-49	561,000	514,000	498,000	17,000	25,000	21,000	S	19,000
50-59	332,000	294,000	286,000	8,000	15,000	23,000	18,000	5,000
60+	379,000	142,000	109,000	33,000	13,000	224,000	217,000	7,000
S&E-related fields	2,828,000	2,322,000	1,890,000	432,000	48,000	458,000	200,000	258,000
<30	270,000	244,000	215,000	30,000	4,000	22,000	S	22,000
30-39	756,000	663,000	511,000	152,000	13,000	80,000	S	78,000
40-49	897,000	784,000	642,000	142,000	13,000	99,000	4,000	95,000
50-59	573,000	501,000	431,000	70,000	9,000	63,000	20,000	43,000
60+	332,000	130,000	92,000	39,000	8,000	194,000	175,000	19,000
Non-S&E fields	1,238,000	1,215,000	1,100,000	115,000	4,000	19,000	8,000	12,000
<30	92,000	91,000	80,000	10,000	S	S	S	S

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
30-39	375,000	371,000	337,000	34,000	S	S	S	S
40-49	400,000	396,000	369,000	27,000	S	3,000	S	S
50-59	296,000	288,000	261,000	27,000	S	6,000	S	6,000
60+	77,000	69,000	52,000	17,000	S	8,000	7,000	S
Master's degrees	5,967,000	4,979,000	4,411,000	568,000	173,000	814,000	501,000	313,000
<30	432,000	386,000	343,000	43,000	14,000	32,000	S	32,000
30-39	1,467,000	1,303,000	1,175,000	128,000	46,000	118,000	S	118,000
40-49	1,611,000	1,471,000	1,337,000	134,000	44,000	96,000	6,000	90,000
50-59	1,555,000	1,370,000	1,241,000	129,000	46,000	138,000	86,000	53,000
60+	902,000	449,000	315,000	134,000	23,000	430,000	409,000	20,000
S&E fields	2,348,000	1,919,000	1,704,000	215,000	79,000	350,000	215,000	135,000
<30	202,000	178,000	148,000	30,000	8,000	17,000	S	17,000
30-39	593,000	522,000	477,000	45,000	20,000	52,000	S	52,000
40-49	612,000	556,000	512,000	44,000	19,000	37,000	2,000	35,000
50-59	550,000	481,000	440,000	42,000	20,000	49,000	30,000	19,000
60+	390,000	182,000	128,000	55,000	11,000	196,000	183,000	13,000
Sciences	1,706,000	1,384,000	1,204,000	180,000	55,000	267,000	158,000	109,000
<30	139,000	122,000	99,000	22,000	5,000	13,000	S	13,000
30-39	419,000	362,000	322,000	40,000	15,000	41,000	S	41,000
40-49	434,000	389,000	353,000	35,000	15,000	31,000	2,000	29,000
50-59	428,000	376,000	338,000	38,000	13,000	39,000	23,000	16,000
60+	287,000	136,000	91,000	45,000	8,000	143,000	133,000	10,000
Biological/agricultural/environmental life sciences	261,000	209,000	186,000	23,000	5,000	46,000	28,000	18,000
<30	26,000	22,000	19,000	3,000	1,000	3,000	S	3,000
30-39	63,000	54,000	48,000	6,000	1,000	8,000	S	8,000
40-49	64,000	60,000	55,000	5,000	1,000	3,000	S	3,000
50-59	64,000	57,000	52,000	5,000	S	7,000	5,000	1,000
60+	42,000	16,000	13,000	3,000	S	25,000	23,000	S
Computer/mathematical sciences	444,000	375,000	343,000	32,000	25,000	44,000	24,000	20,000
<30	40,000	36,000	30,000	6,000	1,000	3,000	S	3,000
30-39	136,000	120,000	111,000	10,000	9,000	7,000	S	7,000
40-49	130,000	118,000	113,000	5,000	7,000	5,000	S	4,000
50-59	99,000	83,000	75,000	7,000	7,000	9,000	6,000	4,000
60+	39,000	18,000	14,000	4,000	1,000	20,000	18,000	S
Physical/related sciences	161,000	130,000	112,000	18,000	5,000	26,000	18,000	7,000
<30	11,000	10,000	8,000	2,000	1,000	1,000	S	1,000
30-39	31,000	27,000	26,000	2,000	1,000	3,000	S	3,000
40-49	44,000	40,000	36,000	4,000	2,000	2,000	S	2,000
50-59	37,000	35,000	31,000	4,000	1,000	2,000	1,000	S

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
60+	37,000	18,000	11,000	7,000	S	18,000	17,000	S
Social/related sciences	840,000	670,000	563,000	107,000	19,000	151,000	88,000	63,000
<30	62,000	54,000	43,000	12,000	2,000	5,000	S	5,000
30-39	188,000	161,000	138,000	23,000	4,000	24,000	S	23,000
40-49	196,000	170,000	149,000	21,000	5,000	21,000	S	19,000
50-59	227,000	202,000	181,000	22,000	4,000	21,000	11,000	10,000
60+	168,000	84,000	53,000	31,000	4,000	80,000	74,000	6,000
Engineering	642,000	535,000	500,000	35,000	24,000	83,000	57,000	26,000
<30	63,000	56,000	49,000	7,000	3,000	4,000	S	4,000
30-39	175,000	159,000	155,000	5,000	5,000	10,000	S	10,000
40-49	178,000	168,000	158,000	9,000	5,000	6,000	S	6,000
50-59	123,000	106,000	101,000	4,000	8,000	10,000	7,000	3,000
60+	103,000	46,000	37,000	10,000	4,000	53,000	50,000	3,000
S&E-related fields	1,088,000	915,000	762,000	153,000	24,000	149,000	88,000	62,000
<30	97,000	89,000	82,000	6,000	2,000	6,000	S	6,000
30-39	264,000	235,000	191,000	44,000	9,000	20,000	S	20,000
40-49	303,000	276,000	233,000	42,000	7,000	21,000	S	21,000
50-59	279,000	240,000	205,000	36,000	6,000	33,000	21,000	12,000
60+	145,000	75,000	51,000	24,000	S	69,000	66,000	S
Non-S&E fields	2,530,000	2,145,000	1,946,000	200,000	70,000	314,000	198,000	116,000
<30	133,000	120,000	113,000	7,000	5,000	9,000	S	9,000
30-39	610,000	546,000	507,000	39,000	17,000	46,000	S	46,000
40-49	695,000	639,000	592,000	47,000	17,000	39,000	4,000	35,000
50-59	725,000	649,000	597,000	51,000	20,000	56,000	35,000	22,000
60+	367,000	192,000	136,000	55,000	11,000	164,000	160,000	5,000
Doctorate degrees	1,026,000	885,000	802,000	84,000	21,000	119,000	95,000	25,000
<30	19,000	17,000	17,000	*	*	2,000	S	2,000
30-39	211,000	200,000	189,000	11,000	4,000	6,000	S	6,000
40-49	270,000	257,000	241,000	16,000	5,000	8,000	*	7,000
50-59	282,000	261,000	241,000	20,000	6,000	14,000	10,000	4,000
60+	245,000	149,000	113,000	36,000	6,000	90,000	84,000	5,000
S&E fields	796,000	690,000	625,000	65,000	18,000	88,000	69,000	19,000
<30	17,000	15,000	15,000	*	S	2,000	S	2,000
30-39	180,000	171,000	161,000	10,000	4,000	5,000	S	5,000
40-49	220,000	210,000	196,000	14,000	4,000	6,000	*	5,000
50-59	199,000	185,000	169,000	16,000	5,000	9,000	5,000	4,000
60+	180,000	109,000	84,000	25,000	5,000	67,000	63,000	4,000
Sciences	656,000	568,000	510,000	57,000	14,000	74,000	57,000	17,000

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
<30	14,000	12,000	12,000	*	S	1,000	S	1,000
30-39	145,000	137,000	128,000	9,000	3,000	4,000	S	4,000
40-49	179,000	171,000	159,000	12,000	3,000	5,000	*	5,000
50-59	170,000	159,000	144,000	15,000	4,000	8,000	4,000	3,000
60+	147,000	89,000	68,000	21,000	3,000	55,000	53,000	3,000
Biological/agricultural/environmental life sciences	221,000	191,000	178,000	12,000	6,000	25,000	19,000	6,000
<30	5,000	5,000	5,000	S	S	*	S	*
30-39	57,000	52,000	50,000	2,000	2,000	2,000	S	2,000
40-49	66,000	63,000	61,000	3,000	1,000	2,000	S	2,000
50-59	50,000	46,000	44,000	3,000	2,000	2,000	1,000	1,000
60+	43,000	24,000	19,000	5,000	1,000	18,000	17,000	1,000
Computer/mathematical sciences	57,000	51,000	48,000	3,000	1,000	5,000	4,000	1,000
<30	3,000	3,000	3,000	S	S	S	S	S
30-39	15,000	15,000	14,000	1,000	*	*	S	*
40-49	15,000	15,000	14,000	1,000	*	*	S	*
50-59	12,000	11,000	10,000	1,000	*	1,000	*	*
60+	11,000	7,000	6,000	1,000	*	4,000	4,000	*
Physical/related sciences	167,000	141,000	131,000	9,000	4,000	22,000	19,000	3,000
<30	2,000	2,000	2,000	S	S	S	S	S
30-39	36,000	35,000	34,000	1,000	*	1,000	S	1,000
40-49	45,000	42,000	41,000	1,000	1,000	1,000	S	1,000
50-59	38,000	35,000	34,000	2,000	1,000	2,000	1,000	1,000
60+	45,000	25,000	20,000	5,000	1,000	18,000	18,000	1,000
Social/related sciences	211,000	185,000	153,000	32,000	3,000	22,000	16,000	6,000
<30	3,000	2,000	2,000	S	S	S	S	S
30-39	36,000	35,000	29,000	5,000	1,000	1,000	S	1,000
40-49	53,000	51,000	43,000	8,000	1,000	1,000	S	1,000
50-59	70,000	66,000	56,000	9,000	1,000	4,000	2,000	2,000
60+	48,000	32,000	23,000	10,000	1,000	15,000	14,000	1,000
Engineering	140,000	122,000	115,000	7,000	4,000	14,000	11,000	2,000
<30	3,000	3,000	3,000	S	S	S	S	S
30-39	36,000	34,000	33,000	1,000	1,000	1,000	S	1,000
40-49	40,000	39,000	38,000	1,000	1,000	*	S	*
50-59	28,000	27,000	25,000	1,000	1,000	1,000	1,000	*
60+	33,000	20,000	16,000	4,000	2,000	11,000	11,000	1,000
S&E-related fields	69,000	59,000	54,000	5,000	1,000	10,000	8,000	2,000
<30	2,000	2,000	2,000	S	S	S	S	S
30-39	10,000	10,000	10,000	1,000	*	S	S	S
40-49	20,000	19,000	18,000	1,000	S	1,000	S	1,000

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
		50-59	20,000	19,000		18,000	1,000	*
60+	16,000	8,000	6,000	2,000	*	8,000	7,000	1,000
Non-S&E fields	160,000	136,000	123,000	14,000	2,000	22,000	18,000	4,000
<30	S	S	S	S	S	S	S	S
30-39	20,000	19,000	19,000	S	S	S	S	S
40-49	30,000	28,000	27,000	S	S	S	S	S
50-59	62,000	56,000	54,000	3,000	1,000	5,000	4,000	S
60+	48,000	33,000	23,000	9,000	S	15,000	14,000	S

\* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

<sup>a</sup> Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See <http://sestat.nsf.gov/docs/ed03maj.html> for a detailed description of the educational field classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.