

Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1993

Level and field of highest degree, and citizenship	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
All degree levels¹					
All degree fields, total	9,793,500	6,661,200	906,100	855,300	1,370,900
U.S. citizen, total ²	9,350,700	6,360,300	807,900	836,600	1,345,800
Native	8,672,400	5,878,800	740,600	800,800	1,252,100
Naturalized	678,300	481,500	67,200	35,800	93,700
Non-U.S. citizen, total ³	442,800	300,900	98,100	18,700	25,000
Permanent resident	352,400	260,300	54,400	16,400	21,300
Temporary resident	89,300	40,200	43,100	2,300	3,700
S&E degree fields, total	7,035,800	4,833,700	641,400	539,700	1,021,100
U.S. citizen, total ²	6,666,100	4,582,700	557,100	526,100	1,000,300
Native	6,142,300	4,205,600	508,200	501,300	927,200
Naturalized	523,700	377,000	48,800	24,800	73,000
Non-U.S. citizen, total ³	369,700	251,100	84,300	13,500	20,800
Permanent resident	289,500	215,100	45,200	11,500	17,600
Temporary resident	79,100	35,600	38,500	2,000	3,100
Sciences, total	5,202,100	3,372,800	554,200	518,900	756,200
U.S. citizen, total ²	4,966,800	3,225,200	490,600	507,400	743,700
Native	4,659,200	3,017,300	451,700	484,900	705,400
Naturalized	307,500	207,900	38,900	22,500	38,200
Non-U.S. citizen, total ³	235,300	147,600	63,600	11,500	12,500
Permanent resident	183,900	127,600	35,800	10,200	10,400
Temporary resident	50,700	19,800	27,500	1,300	2,100
Computer/math sciences, total	918,000	677,800	65,500	85,300	89,400
U.S. citizen, total ²	857,200	632,700	54,300	83,300	86,800
Native	781,000	572,600	48,400	79,900	80,100
Naturalized	76,200	60,200	6,000	3,300	6,700
Non-U.S. citizen, total ³	60,800	45,000	11,200	2,000	2,600
Permanent resident	47,900	38,400	5,800	1,700	2,000
Temporary resident	12,900	6,700	5,400	300	600
Life/related sciences, total	1,073,100	643,900	186,600	93,600	149,000
U.S. citizen, total ²	1,022,300	619,800	164,700	91,700	146,000
Native	954,900	578,700	150,800	88,400	136,900
Naturalized	67,400	41,100	13,800	3,300	9,100
Non-U.S. citizen, total ³	50,900	24,100	21,900	1,900	3,000
Permanent resident	37,800	21,500	12,200	1,800	2,300
Temporary resident	13,000	2,600	9,700	100	700
Physical/related sciences, total	599,800	391,100	93,100	36,100	79,400
U.S. citizen, total ²	552,700	364,000	76,400	34,800	77,600
Native	501,800	329,900	67,800	32,600	71,500
Naturalized	50,900	34,100	8,600	2,200	6,100
Non-U.S. citizen, total ³	47,100	27,200	16,800	1,300	1,800
Permanent resident	34,800	23,900	8,300	1,000	1,600
Temporary resident	12,100	3,100	8,500	300	200
Social/related sciences, total	2,611,200	1,660,000	208,900	303,900	438,400
U.S. citizen, total ²	2,534,600	1,608,600	195,200	297,600	433,200
Native	2,421,600	1,536,000	184,700	284,000	416,900
Naturalized	113,000	72,600	10,500	13,600	16,300
Non-U.S. citizen, total ³	76,500	51,400	13,700	6,300	5,100
Permanent resident	63,500	43,800	9,600	5,700	4,400
Temporary resident	12,700	7,500	3,900	600	700

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

Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1993

Level and field of highest degree, and citizenship	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
All degree levels¹ — continued					
Engineering, total	1,833,700	1,460,900	87,200	20,800	264,800
U.S. citizen, total ²	1,699,400	1,357,500	66,500	18,800	256,600
Native	1,483,100	1,188,400	56,500	16,400	221,800
Naturalized	216,300	169,100	10,000	2,400	34,800
Non-U.S. citizen, total ³	134,400	103,400	20,700	2,000	8,200
Permanent resident	105,600	87,500	9,500	1,300	7,300
Temporary resident	28,400	15,800	10,900	700	1,000
Non-S&E degree fields, total	2,757,700	1,827,500	264,700	315,700	349,800
U.S. citizen, total ²	2,684,600	1,777,700	250,900	310,500	345,600
Native	2,530,100	1,673,200	232,500	299,500	324,900
Naturalized	154,500	104,400	18,400	11,000	20,700
Non-U.S. citizen, total ³	73,100	49,900	13,800	5,200	4,300
Permanent resident	62,900	45,100	9,200	4,800	3,700
Temporary resident	10,200	4,700	4,700	300	500
Bachelor's					
All degree fields, total	5,727,200	4,242,600	290,100	363,000	831,500
U.S. citizen, total ²	5,529,000	4,086,600	270,500	353,900	818,000
Native	5,166,500	3,811,600	252,000	337,500	765,400
Naturalized	362,500	275,000	18,500	16,400	52,600
Non-U.S. citizen, total ³	198,200	156,000	19,600	9,100	13,500
Permanent resident	171,400	140,400	10,800	8,100	12,000
Temporary resident	26,700	15,400	8,800	1,000	1,500
S&E degree fields, total	5,172,600	3,806,800	263,200	335,300	767,200
U.S. citizen, total ²	4,990,400	3,663,600	244,500	327,700	754,600
Native	4,664,200	3,417,500	228,400	312,500	705,700
Naturalized	326,200	246,100	16,100	15,100	48,800
Non-U.S. citizen, total ³	182,300	143,200	18,800	7,700	12,600
Permanent resident	156,600	128,200	10,300	6,700	11,300
Temporary resident	25,500	14,800	8,400	1,000	1,300
Sciences, total	3,814,400	2,698,700	231,400	319,400	564,900
U.S. citizen, total ²	3,700,000	2,612,600	216,600	313,000	557,800
Native	3,505,700	2,470,300	203,400	299,400	532,600
Naturalized	194,300	142,200	13,200	13,600	25,200
Non-U.S. citizen, total ³	114,400	86,200	14,700	6,400	7,100
Permanent resident	97,800	77,800	8,300	5,600	6,100
Temporary resident	16,400	8,200	6,400	800	1,000
Computer/math sciences, total	663,800	521,200	24,800	50,800	66,900
U.S. citizen, total ²	634,800	497,600	21,900	50,000	65,300
Native	587,100	457,800	20,100	48,300	61,000
Naturalized	47,700	39,800	1,800	1,700	4,300
Non-U.S. citizen, total ³	29,000	23,600	3,000	800	1,600
Permanent resident	24,200	21,000	1,500	600	1,100
Temporary resident	4,800	2,600	1,500	200	500

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

Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1993

Level and field of highest degree, and citizenship	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Bachelor's — continued					
Life/related sciences, total	773,600	526,400	79,200	59,600	108,300
U.S. citizen, total ²	751,700	512,900	73,500	58,200	107,000
Native	712,400	486,200	68,900	56,200	101,100
Naturalized	39,400	26,800	4,600	2,000	6,000
Non-U.S. citizen, total ³	21,900	13,500	5,700	1,400	1,300
Permanent resident	18,200	12,300	3,400	1,400	1,100
Temporary resident	3,600	1,100	2,300	S	200
Physical/related sciences, total	372,500	269,900	31,600	21,100	50,100
U.S. citizen, total ²	354,400	256,400	28,800	20,100	49,000
Native	327,900	237,200	25,800	19,100	45,800
Naturalized	26,500	19,200	3,000	1,000	3,300
Non-U.S. citizen, total ³	18,200	13,500	2,700	900	1,000
Permanent resident	14,600	12,100	800	700	1,000
Temporary resident	3,400	1,300	1,900	300	S
Social/related sciences, total	2,004,400	1,381,200	95,700	187,900	339,600
U.S. citizen, total ²	1,959,100	1,345,600	92,400	184,600	336,400
Native	1,878,300	1,289,200	88,600	175,800	324,800
Naturalized	80,700	56,500	3,800	8,800	11,600
Non-U.S. citizen, total ³	45,400	35,600	3,300	3,200	3,200
Permanent resident	40,700	32,400	2,600	2,900	2,900
Temporary resident	4,600	3,200	700	400	300
Engineering, total	1,358,300	1,108,100	31,900	16,000	202,300
U.S. citizen, total ²	1,290,400	1,051,100	27,900	14,700	196,800
Native	1,158,500	947,200	25,000	13,100	173,100
Naturalized	131,900	103,800	2,900	1,500	23,700
Non-U.S. citizen, total ³	67,900	57,100	4,000	1,300	5,500
Permanent resident	58,700	50,400	2,000	1,200	5,200
Temporary resident	9,100	6,700	2,000	100	300
Non-S&E degree fields, total	554,500	435,800	26,900	27,600	64,200
U.S. citizen, total ²	538,600	423,000	26,000	26,200	63,400
Native	502,300	394,100	23,600	25,000	59,600
Naturalized	36,300	28,900	2,400	1,200	3,800
Non-U.S. citizen, total ³	15,900	12,800	900	1,400	900
Permanent resident	14,800	12,200	500	1,400	700
Temporary resident	1,200	600	400	S	200
Master's					
All degree fields, total	2,575,600	1,523,200	224,500	447,200	380,800
U.S. citizen, total ²	2,422,500	1,419,900	190,400	439,400	372,800
Native	2,224,200	1,279,600	178,400	422,300	343,900
Naturalized	198,300	140,300	12,100	17,100	28,900
Non-U.S. citizen, total ³	153,100	103,300	34,000	7,800	8,000
Permanent resident	110,600	85,500	11,900	6,800	6,500
Temporary resident	42,000	17,800	21,700	1,000	1,400

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

Table C-5. Employed U.S. scientists and engineers, by level and field of highest degree attained, citizenship status, and employment sector: 1993

Level and field of highest degree, and citizenship	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Master's — continued					
S&E degree fields, total	1,328,400	798,300	138,000	190,100	202,000
U.S. citizen, total ²	1,209,700	721,500	107,000	185,000	196,200
Native	1,079,300	625,600	98,900	176,600	178,200
Naturalized	130,400	95,900	8,100	8,400	18,000
Non-U.S. citizen, total ³	118,800	76,800	31,000	5,200	5,800
Permanent resident	81,800	62,100	10,700	4,300	4,700
Temporary resident	36,400	14,600	19,900	900	1,100
Sciences, total	937,700	495,900	110,500	185,800	145,500
U.S. citizen, total ²	868,700	455,100	90,300	181,300	141,900
Native	803,300	411,500	84,600	173,600	133,700
Naturalized	65,400	43,600	5,800	7,700	8,300
Non-U.S. citizen, total ³	69,000	40,800	20,200	4,500	3,600
Permanent resident	47,800	33,200	7,500	4,200	2,900
Temporary resident	21,100	7,600	12,500	300	700
Computer/math sciences, total	221,400	145,900	20,500	33,800	21,200
U.S. citizen, total ²	196,500	126,800	16,700	32,700	20,300
Native	172,300	107,800	15,300	31,100	18,000
Naturalized	24,200	19,000	1,400	1,500	2,200
Non-U.S. citizen, total ³	24,900	19,100	3,800	1,100	900
Permanent resident	18,900	16,000	1,100	1,000	800
Temporary resident	6,000	3,100	2,700	100	100
Life/related sciences, total	151,000	67,100	28,900	31,000	24,000
U.S. citizen, total ²	140,900	63,700	23,400	30,700	23,100
Native	131,200	57,800	21,700	29,600	22,100
Naturalized	9,700	5,900	1,700	1,100	1,000
Non-U.S. citizen, total ³	10,100	3,400	5,500	300	900
Permanent resident	5,800	2,900	2,000	300	600
Temporary resident	4,300	500	3,500	S	200
Physical/related sciences, total	111,300	62,700	17,200	12,800	18,600
U.S. citizen, total ²	99,400	57,100	11,500	12,600	18,300
Native	90,200	50,900	10,800	11,700	16,800
Naturalized	9,300	6,200	700	900	1,500
Non-U.S. citizen, total ³	11,900	5,600	5,700	300	300
Permanent resident	7,300	4,900	2,000	200	200
Temporary resident	4,600	700	3,700	S	100
Social/related sciences, total	453,900	220,100	43,900	108,200	81,800
U.S. citizen, total ²	431,800	207,500	38,700	105,400	80,200
Native	409,700	195,000	36,800	101,200	76,700
Naturalized	22,200	12,500	1,900	4,200	3,500
Non-U.S. citizen, total ³	22,100	12,700	5,100	2,800	1,500
Permanent resident	15,600	9,400	2,400	2,600	1,200
Temporary resident	6,300	3,200	2,500	200	200

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		Business/industry	4-yr. College/university	Other educational institution	Government
Master's — continued					
Engineering, total	390,700	302,400	27,500	4,300	56,500
U.S. citizen, total ²	341,000	266,400	16,700	3,600	54,300
Native	276,000	214,100	14,300	3,000	44,500
Naturalized	65,000	52,300	2,400	600	9,700
Non-U.S. citizen, total ³	49,700	36,000	10,800	700	2,200
Permanent resident	34,000	28,900	3,200	100	1,800
Temporary resident	15,400	7,000	7,400	500	400
Non-S&E degree fields, total	1,247,100	724,900	86,500	257,100	178,700
U.S. citizen, total ²	1,212,800	698,400	83,400	254,400	176,600
Native	1,144,900	654,000	79,500	245,700	165,700
Naturalized	67,900	44,400	3,900	8,700	10,900
Non-U.S. citizen, total ³	34,300	26,500	3,000	2,600	2,200
Permanent resident	28,800	23,300	1,200	2,500	1,800
Temporary resident	5,500	3,200	1,800	200	400
Doctorate					
All degree fields, total	634,800	263,500	280,100	32,000	59,100
U.S. citizen, total ²	558,900	230,600	241,600	30,300	56,400
Native	484,400	192,700	214,300	28,300	49,200
Naturalized	74,400	37,900	27,200	2,000	7,200
Non-U.S. citizen, total ³	75,900	32,900	38,500	1,700	2,700
Permanent resident	57,000	26,100	27,500	1,400	2,000
Temporary resident	18,500	6,700	10,800	300	700
S&E degree fields, total	529,200	225,900	239,500	12,500	51,300
U.S. citizen, total ²	460,600	194,900	204,900	11,800	48,900
Native	393,600	160,000	180,200	10,600	42,900
Naturalized	66,900	34,900	24,600	1,200	6,100
Non-U.S. citizen, total ³	68,600	31,000	34,600	700	2,300
Permanent resident	51,100	24,800	24,200	500	1,600
Temporary resident	17,200	6,200	10,200	100	700
Sciences, total	444,500	175,600	211,700	12,000	45,300
U.S. citizen, total ²	392,700	154,900	183,000	11,400	43,400
Native	345,000	132,900	163,100	10,300	38,700
Naturalized	47,600	21,900	19,900	1,100	4,700
Non-U.S. citizen, total ³	51,800	20,700	28,700	600	1,800
Permanent resident	38,300	16,500	20,000	500	1,400
Temporary resident	13,300	4,000	8,600	100	500
Computer/math sciences, total	32,800	10,700	20,200	700	1,300
U.S. citizen, total ²	25,900	8,300	15,800	600	1,200
Native	21,600	7,000	13,000	500	1,100
Naturalized	4,300	1,300	2,700	100	100
Non-U.S. citizen, total ³	6,900	2,400	4,400	100	100
Permanent resident	4,700	1,400	3,300	100	100
Temporary resident	2,200	1,000	1,100	S	S

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

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Level and field of highest degree, and citizenship	Employed S&Es, total	Sector of employment			
		Business/industry	4-yr. College/university	Other educational institution	Government
Doctorate — continued					
Life/related sciences, total	148,500	50,300	78,500	3,000	16,700
U.S. citizen, total ²	129,600	43,200	67,800	2,800	15,800
Native	111,300	34,800	60,200	2,600	13,700
Naturalized	18,300	8,400	7,500	200	2,100
Non-U.S. citizen, total ³	18,900	7,100	10,700	200	900
Permanent resident	13,700	6,200	6,800	100	600
Temporary resident	5,200	900	3,900	100	300
Physical/related sciences, total	115,900	58,500	44,400	2,200	10,800
U.S. citizen, total ²	98,900	50,500	36,000	2,000	10,300
Native	83,800	41,800	31,200	1,800	9,000
Naturalized	15,100	8,700	4,800	300	1,300
Non-U.S. citizen, total ³	17,000	8,000	8,400	100	500
Permanent resident	12,800	6,900	5,500	100	400
Temporary resident	4,100	1,100	2,900	S	100
Social/related sciences, total	147,300	56,000	68,700	6,100	16,500
U.S. citizen, total ²	138,300	52,800	63,500	5,900	16,100
Native	128,400	49,300	58,600	5,400	15,000
Naturalized	9,900	3,500	4,800	400	1,100
Non-U.S. citizen, total ³	9,000	3,200	5,200	200	400
Permanent resident	7,100	2,100	4,500	200	400
Temporary resident	1,800	1,000	700	S	100
Engineering, total	84,700	50,400	27,800	500	6,000
U.S. citizen, total ²	67,900	40,000	21,900	500	5,500
Native	48,600	27,000	17,200	300	4,200
Naturalized	19,300	13,000	4,800	200	1,400
Non-U.S. citizen, total ³	16,800	10,400	5,800	100	500
Permanent resident	12,800	8,200	4,200	S	300
Temporary resident	3,900	2,100	1,500	S	200
Non-S&E degree fields, total	105,600	37,600	40,600	19,500	7,900
U.S. citizen, total ²	98,300	35,600	36,700	18,500	7,500
Native	90,700	32,700	34,100	17,700	6,300
Naturalized	7,500	3,000	2,600	800	1,200
Non-U.S. citizen, total ³	7,300	1,900	3,900	1,100	400
Permanent resident	5,900	1,300	3,300	900	400
Temporary resident	1,300	600	600	200	S

- 1 Includes professional degrees
- 2 Includes U.S. citizens who did not specify mode of gaining citizenship
- 3 Includes non-citizens who did not specify visa status

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 are employed in an S&E occupation.
 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, 1993 SESTAT (Scientists and Engineers Statistical Data System)