

**Table C-8. Employed U.S. scientists and engineers, by level and field of highest degree attained, employment sector, and primary/secondary work activity : 1997**

Level and field of highest degree, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>All degree levels<sup>1</sup></b>						
<b>All degree fields, total</b> .....	10,585,600	2,904,700	1,560,700	6,343,700	2,164,600	3,588,300
Educational institution .....	1,953,500	594,600	1,164,600	683,900	249,800	510,400
Government .....	1,367,300	350,000	65,700	843,700	252,700	604,300
Business/industry .....	7,264,900	1,960,200	330,300	4,816,100	1,662,000	2,473,600
<b>S&amp;E degree fields, total</b> .....	7,704,000	2,374,000	1,038,900	4,611,800	1,733,100	2,163,700
Educational institution .....	1,344,500	471,100	783,200	453,900	186,100	285,900
Government .....	1,029,200	286,400	43,500	622,600	205,600	428,200
Business/industry .....	5,330,200	1,616,500	212,200	3,535,300	1,341,300	1,449,600
<b>Sciences, total</b> .....	5,794,700	1,431,800	958,900	3,510,600	1,246,600	1,768,600
Educational institution .....	1,241,000	411,300	734,100	426,400	162,900	273,400
Government .....	785,200	187,800	38,500	466,300	152,000	362,100
Business/industry .....	3,768,600	832,700	186,300	2,617,800	931,800	1,133,000
<b>Computer/math sciences, total</b> .....	1,003,300	311,000	140,700	508,100	557,000	130,600
Educational institution .....	165,300	43,400	117,900	47,900	46,400	16,700
Government .....	81,900	25,400	3,200	45,600	37,800	17,400
Business/industry .....	756,100	242,200	19,600	414,600	472,900	96,500
<b>Life/related sciences, total</b> .....	1,204,700	373,500	221,700	695,700	141,500	413,200
Educational institution .....	325,600	149,400	175,000	106,100	26,100	66,600
Government .....	158,400	52,400	9,000	85,100	24,700	74,900
Business/industry .....	720,700	171,700	37,700	504,500	90,700	271,600
<b>Physical/related sciences, total</b> .....	619,200	284,700	89,100	318,900	122,800	147,100
Educational institution .....	128,200	69,900	73,100	27,100	22,300	15,000
Government .....	73,700	34,100	2,100	35,400	19,300	24,800
Business/industry .....	417,300	180,700	13,900	256,400	81,100	107,300
<b>Social/related sciences, total</b> .....	2,967,600	462,600	507,400	1,987,900	425,400	1,077,700
Educational institution .....	621,900	148,600	368,100	245,300	68,000	175,200
Government .....	471,200	75,900	24,200	300,200	70,300	245,000
Business/industry .....	1,874,500	238,100	115,100	1,442,400	287,100	657,600
<b>Engineering, total</b> .....	1,909,200	942,200	79,900	1,101,200	486,500	395,100
Educational institution .....	103,500	59,800	49,100	27,400	23,300	12,500
Government .....	244,100	98,600	5,000	156,300	53,700	66,100
Business/industry .....	1,561,600	783,800	25,900	917,500	409,500	316,500
<b>Non-S&amp;E degree fields, total</b> .....	2,881,700	530,700	521,800	1,732,000	431,500	1,424,600
Educational institution .....	609,000	123,500	381,400	230,000	63,700	224,500
Government .....	338,000	63,600	22,200	221,100	47,100	176,100
Business/industry .....	1,934,700	343,600	118,100	1,280,800	320,700	1,024,000
<b>Bachelor's</b>						
<b>All degree fields, total</b> .....	6,193,700	1,624,300	669,600	3,947,600	1,492,000	1,759,300
Educational institution .....	780,800	189,300	438,900	299,500	126,300	170,900
Government .....	830,700	199,800	36,400	515,100	177,800	353,000
Business/industry .....	4,582,200	1,235,200	194,300	3,132,900	1,187,900	1,235,400

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

**Table C-8. Employed U.S. scientists and engineers, by level and field of highest degree attained, employment sector, and primary/secondary work activity : 1997**

Level and field of highest degree, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>Bachelor's — continued</b>						
<b>S&amp;E degree fields, total</b> .....	5,683,700	1,466,700	625,500	3,648,400	1,298,100	1,629,700
Educational institution .....	735,400	181,100	417,900	279,800	114,200	155,900
Government .....	770,700	181,400	32,100	479,000	155,700	336,900
Business/industry .....	4,177,500	1,104,200	175,500	2,889,600	1,028,200	1,136,900
<b>Sciences, total</b> .....	4,303,400	843,700	582,500	2,811,100	959,500	1,316,600
Educational institution .....	689,900	161,600	400,000	265,500	101,300	148,200
Government .....	591,400	115,100	28,200	361,700	117,300	285,700
Business/industry .....	3,022,100	566,900	154,200	2,183,900	740,800	882,700
<b>Computer/math sciences, total</b> .....	721,600	200,800	79,200	381,500	411,900	101,900
Educational institution .....	90,400	14,400	60,500	29,700	29,200	11,500
Government .....	62,500	18,200	2,500	33,800	28,000	15,100
Business/industry .....	568,700	168,200	16,200	318,000	354,700	75,300
<b>Life/related sciences, total</b> .....	884,500	205,600	131,100	558,700	108,900	327,400
Educational institution .....	176,900	59,900	92,300	64,600	13,800	42,600
Government .....	114,500	29,000	7,100	65,400	19,200	59,300
Business/industry .....	593,100	116,700	31,700	428,700	75,900	225,600
<b>Physical/related sciences, total</b> .....	381,900	139,400	41,000	222,100	80,200	106,300
Educational institution .....	54,400	24,000	27,700	11,200	11,000	8,900
Government .....	43,900	15,400	1,500	22,800	12,100	16,800
Business/industry .....	283,600	99,900	11,800	188,100	57,000	80,700
<b>Social/related sciences, total</b> .....	2,315,500	297,900	331,000	1,648,700	358,400	780,900
Educational institution .....	368,300	63,300	219,500	160,000	47,300	85,200
Government .....	370,500	52,600	17,000	239,700	58,000	194,600
Business/industry .....	1,576,700	182,100	94,500	1,249,000	253,100	501,200
<b>Engineering, total</b> .....	1,380,300	623,000	43,000	837,300	338,600	313,100
Educational institution .....	45,500	19,400	17,800	14,300	12,800	7,700
Government .....	179,300	66,300	3,900	117,200	38,400	51,200
Business/industry .....	1,155,400	537,300	21,200	705,700	287,400	254,200
<b>Non-S&amp;E degree fields, total</b> .....	510,000	157,600	44,100	299,200	193,900	129,600
Educational institution .....	45,400	8,200	21,000	19,800	12,200	15,100
Government .....	60,000	18,300	4,300	36,200	22,100	16,100
Business/industry .....	404,600	131,000	18,800	243,300	159,700	98,400
<b>Master's</b>						
<b>All degree fields, total</b> .....	2,819,800	779,500	545,300	1,656,600	572,100	877,300
Educational institution .....	711,400	156,500	443,600	262,400	99,200	196,300
Government .....	372,500	101,500	19,500	246,400	62,900	143,000
Business/industry .....	1,736,000	521,500	82,200	1,147,800	410,000	538,100
<b>S&amp;E degree fields, total</b> .....	1,431,600	531,400	227,000	754,000	366,800	393,800
Educational institution .....	332,400	98,500	190,800	110,000	53,500	87,900
Government .....	200,900	68,000	9,000	117,900	41,700	74,100
Business/industry .....	898,400	364,900	27,200	526,100	271,600	231,800

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

**Table C-8. Employed U.S. scientists and engineers, by level and field of highest degree attained, employment sector, and primary/secondary work activity : 1997**

Level and field of highest degree, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>Master's — continued</b>						
<b>Sciences, total</b> .....	1,001,000	286,400	211,100	524,300	238,800	323,500
Educational institution .....	304,200	81,400	179,900	102,700	45,500	85,300
Government .....	144,000	41,900	8,000	81,800	28,300	60,400
Business/industry .....	552,800	163,100	23,200	339,800	165,000	177,900
<b>Computer/math sciences, total</b> .....	244,700	84,900	43,100	118,200	134,200	25,400
Educational institution .....	52,800	13,700	39,400	15,000	14,600	3,500
Government .....	17,700	5,900	600	11,300	9,100	2,000
Business/industry .....	174,100	65,300	3,100	91,900	110,400	19,900
<b>Life/related sciences, total</b> .....	156,600	57,100	39,800	76,600	22,000	48,300
Educational institution .....	57,300	21,800	35,600	18,500	7,200	9,000
Government .....	26,400	10,900	1,000	11,700	3,900	11,500
Business/industry .....	72,900	24,400	3,200	46,400	10,900	27,700
<b>Physical/related sciences, total</b> .....	114,500	55,000	18,100	53,700	25,500	24,900
Educational institution .....	27,500	12,200	16,700	6,200	6,300	2,200
Government .....	16,400	8,400	300	7,600	4,500	5,800
Business/industry .....	70,600	34,500	1,000	39,900	14,600	16,800
<b>Social/related sciences, total</b> .....	485,300	89,400	110,100	275,800	57,100	225,000
Educational institution .....	166,600	33,700	88,100	62,900	17,300	70,500
Government .....	83,400	16,700	6,100	51,200	10,700	40,900
Business/industry .....	235,200	38,900	15,900	161,600	29,000	113,500
<b>Engineering, total</b> .....	430,600	244,900	15,800	229,700	128,000	70,300
Educational institution .....	28,200	17,000	10,900	7,300	8,000	2,700
Government .....	56,900	26,100	900	36,000	13,300	13,800
Business/industry .....	345,600	201,700	4,000	186,400	106,700	53,800
<b>Non-S&amp;E degree fields, total</b> .....	1,388,200	248,100	318,300	902,600	205,300	483,500
Educational institution .....	379,000	58,000	252,800	152,400	45,700	108,300
Government .....	171,600	33,500	10,600	128,600	21,200	68,800
Business/industry .....	837,600	156,600	55,000	621,700	138,300	306,300
<b>Doctorate</b>						
<b>All degree fields, total</b> .....	696,000	417,600	234,800	261,500	76,100	172,000
Educational institution .....	341,800	221,400	219,200	89,500	22,100	52,700
Government .....	65,100	39,200	2,700	31,800	8,700	20,400
Business/industry .....	289,100	157,000	13,000	140,200	45,200	98,800
<b>S&amp;E degree fields, total</b> .....	580,300	374,700	185,400	204,900	67,700	134,700
Educational institution .....	273,300	190,900	174,100	62,700	18,300	40,200
Government .....	56,900	36,500	2,300	25,300	8,200	16,900
Business/industry .....	250,100	147,300	9,100	117,000	41,100	77,700
<b>Sciences, total</b> .....	482,000	300,300	164,300	170,900	47,900	122,900
Educational institution .....	243,500	167,600	153,800	56,900	15,900	38,000
Government .....	49,000	30,300	2,200	22,300	6,300	15,700
Business/industry .....	189,600	102,500	8,400	91,700	25,700	69,200

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Level and field of highest degree, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
<b>Doctorate — continued</b>						
<b>Computer/math sciences, total</b> .....	36,900	25,300	18,400	8,300	10,800	3,200
Educational institution .....	22,100	15,300	18,000	3,100	2,600	1,700
Government .....	1,600	1,300	S	500	600	300
Business/industry .....	13,100	8,700	300	4,600	7,600	1,200
<b>Life/related sciences, total</b> .....	162,500	110,500	50,800	59,800	10,400	37,100
Educational institution .....	91,100	67,700	47,100	23,000	5,000	14,700
Government .....	17,100	12,200	900	7,900	1,600	4,100
Business/industry .....	54,200	30,600	2,800	28,900	3,900	18,400
<b>Physical/related sciences, total</b> .....	122,200	90,000	29,700	42,600	17,100	15,800
Educational institution .....	46,200	33,600	28,600	9,700	5,000	3,900
Government .....	13,300	10,200	300	4,800	2,700	2,200
Business/industry .....	62,700	46,300	800	28,000	9,500	9,700
<b>Social/related sciences, total</b> .....	160,500	74,500	65,500	60,200	9,700	66,900
Educational institution .....	84,000	51,000	60,000	21,000	3,400	17,800
Government .....	16,900	6,600	1,000	9,100	1,500	9,200
Business/industry .....	59,500	16,900	4,500	30,100	4,800	39,900
<b>Engineering, total</b> .....	98,200	74,300	21,100	34,100	19,700	11,800
Educational institution .....	29,800	23,300	20,300	5,800	2,400	2,100
Government .....	7,900	6,200	100	3,000	1,900	1,100
Business/industry .....	60,500	44,800	700	25,300	15,400	8,500
<b>Non-S&amp;E degree fields, total</b> .....	115,800	42,900	49,400	56,600	8,400	37,200
Educational institution .....	68,500	30,500	45,100	26,800	3,800	12,500
Government .....	8,300	2,700	400	6,500	500	3,500
Business/industry .....	39,000	9,700	3,900	23,200	4,100	21,100

<sup>1</sup> 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. Sum of primary/secondary work activity categories exceeds total because of multiple responses.

**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)