

Table C-8. Employed U.S. scientists and engineers, by level and field of highest degree attained, employment sector, and primary/secondary work activity : 1999

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
All degree levels¹						
All degree fields, total	10,981,600	3,025,600	1,648,000	6,742,200	2,289,800	3,593,300
Educational institution	2,022,400	621,900	1,206,400	749,400	265,400	508,800
Government	1,403,300	345,400	82,600	882,000	282,400	589,500
Business/industry	7,556,000	2,058,400	359,000	5,110,900	1,742,000	2,495,000
S&E degree fields, total	7,980,100	2,483,800	1,096,300	4,863,700	1,855,000	2,131,200
Educational institution	1,379,100	488,800	802,000	483,400	203,400	290,800
Government	1,055,600	280,000	62,200	655,600	232,200	406,500
Business/industry	5,545,400	1,715,000	232,100	3,724,700	1,419,400	1,434,000
Sciences, total	6,043,700	1,523,500	1,019,500	3,694,400	1,354,200	1,795,500
Educational institution	1,279,100	429,100	757,500	457,000	179,600	281,800
Government	819,400	184,000	56,900	497,100	176,200	357,000
Business/industry	3,945,200	910,400	205,100	2,740,300	998,400	1,156,700
Computer/math sciences, total	1,045,800	332,100	136,000	547,100	588,600	119,500
Educational institution	164,100	43,900	114,500	54,700	51,300	16,600
Government	77,600	19,600	2,000	45,100	40,100	16,100
Business/industry	804,100	268,600	19,500	447,300	497,200	86,800
Life/related sciences, total	1,287,700	411,500	241,700	752,400	167,100	421,800
Educational institution	345,200	157,500	182,300	113,700	35,400	67,100
Government	173,800	59,900	10,700	104,100	31,900	64,600
Business/industry	768,700	194,200	48,600	534,600	99,800	290,100
Physical/related sciences, total	621,700	284,100	95,600	317,900	131,200	142,000
Educational institution	130,900	69,900	77,100	32,800	22,500	11,300
Government	76,300	34,100	4,000	38,500	18,600	25,600
Business/industry	414,500	180,100	14,600	246,700	90,000	105,200
Social/related sciences, total	3,088,400	495,800	546,200	2,076,900	467,400	1,112,100
Educational institution	638,900	157,800	383,600	255,800	70,400	186,900
Government	491,700	70,500	40,200	309,400	85,600	250,700
Business/industry	1,957,800	267,500	122,400	1,511,700	311,400	674,600
Engineering, total	1,936,400	960,300	76,800	1,169,200	500,800	335,700
Educational institution	100,000	59,700	44,500	26,400	23,800	8,900
Government	236,200	96,000	5,200	158,500	56,000	49,500
Business/industry	1,600,300	804,600	27,000	984,400	421,000	277,300
Non-S&E degree fields, total	3,001,500	541,800	551,700	1,878,600	434,800	1,462,100
Educational institution	643,300	133,100	404,400	266,000	62,000	218,000
Government	347,700	65,400	20,400	226,400	50,300	183,100
Business/industry	2,010,500	343,400	126,900	1,386,200	322,500	1,061,100
Bachelor's						
All degree fields, total	6,350,100	1,672,600	709,500	4,128,300	1,564,700	1,726,100
Educational institution	806,800	210,800	455,700	312,300	140,400	177,200
Government	849,300	191,700	54,300	538,100	198,300	334,300
Business/industry	4,694,100	1,270,200	199,500	3,278,000	1,225,900	1,214,600

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 : 1999

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
Bachelor's — continued						
S&E degree fields, total	5,866,100	1,535,900	666,400	3,825,600	1,390,200	1,600,000
Educational institution	762,800	201,000	435,400	293,200	129,100	164,900
Government	790,700	174,800	49,900	503,700	179,500	316,500
Business/industry	4,312,700	1,160,100	181,100	3,028,700	1,081,700	1,118,600
Sciences, total	4,486,100	908,500	624,700	2,947,600	1,044,100	1,338,200
Educational institution	718,000	179,600	420,100	280,400	114,200	158,800
Government	619,400	112,700	45,700	384,100	139,000	277,700
Business/industry	3,148,800	616,200	159,000	2,283,100	791,000	901,700
Computer/math sciences, total	742,700	212,700	73,300	410,000	426,700	91,600
Educational institution	89,100	16,400	59,300	32,800	30,100	11,100
Government	58,000	13,900	1,500	33,600	29,800	13,700
Business/industry	595,500	182,400	12,500	343,600	366,800	66,800
Life/related sciences, total	947,000	234,200	147,100	599,500	133,300	335,200
Educational institution	190,000	67,900	98,500	66,900	21,700	44,100
Government	126,100	34,500	8,500	78,700	25,600	50,300
Business/industry	631,000	131,800	40,100	453,900	86,000	240,800
Physical/related sciences, total	380,900	139,700	44,700	216,400	84,800	105,800
Educational institution	55,600	26,300	29,400	13,900	10,800	6,600
Government	46,600	16,500	3,600	24,500	12,000	19,200
Business/industry	278,700	97,000	11,800	178,000	62,000	80,000
Social/related sciences, total	2,415,500	321,900	359,700	1,721,700	399,400	805,600
Educational institution	383,300	69,100	233,000	166,700	51,600	97,000
Government	388,600	47,800	32,200	247,400	71,500	194,500
Business/industry	1,643,600	205,000	94,500	1,307,600	276,300	514,100
Engineering, total	1,380,000	627,400	41,700	878,000	346,100	261,800
Educational institution	44,800	21,400	15,300	12,800	14,900	6,100
Government	171,300	62,100	4,200	119,600	40,500	38,800
Business/industry	1,163,900	543,900	22,100	745,600	290,700	216,900
Non-S&E degree fields, total	484,000	136,700	43,100	302,700	174,400	126,100
Educational institution	44,000	9,800	20,400	19,100	11,300	12,300
Government	58,600	16,900	4,300	34,400	18,800	17,800
Business/industry	381,400	110,100	18,400	249,200	144,200	96,100
Master's						
All degree fields, total	2,982,000	830,500	575,300	1,803,700	606,900	895,700
Educational institution	744,000	156,800	458,100	305,000	97,300	197,800
Government	387,000	103,400	20,600	256,800	69,100	149,400
Business/industry	1,851,000	570,400	96,600	1,242,000	440,500	548,600
S&E degree fields, total	1,491,200	553,600	235,400	805,600	385,300	400,900
Educational institution	329,600	92,500	185,200	118,400	53,300	89,700
Government	207,000	68,300	10,100	124,800	44,000	74,800
Business/industry	954,600	392,800	40,200	562,500	288,100	236,400

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 : 1999

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
Master's — continued						
Sciences, total	1,040,400	299,900	221,100	552,800	253,200	336,700
Educational institution	304,500	76,800	175,900	111,300	47,400	88,300
Government	150,200	40,800	9,200	89,200	30,500	64,900
Business/industry	585,600	182,300	36,100	352,200	175,300	183,500
Computer/math sciences, total	262,600	92,800	43,500	126,600	148,200	25,500
Educational institution	52,600	12,300	36,500	18,000	18,200	4,400
Government	17,200	4,200	400	10,400	9,400	2,300
Business/industry	192,700	76,300	6,600	98,200	120,600	18,800
Life/related sciences, total	164,100	58,100	41,000	85,700	21,400	49,500
Educational institution	58,600	18,000	34,900	20,400	8,200	9,900
Government	30,200	13,100	1,400	17,100	4,700	10,200
Business/industry	75,400	27,000	4,700	48,100	8,500	29,300
Physical/related sciences, total	113,900	52,600	18,900	55,000	26,300	24,500
Educational institution	27,800	10,200	16,900	7,700	6,300	2,000
Government	16,700	7,500	300	9,400	3,800	4,900
Business/industry	69,400	34,900	1,800	37,900	16,200	17,600
Social/related sciences, total	499,800	96,300	117,700	285,600	57,300	237,100
Educational institution	165,600	36,200	87,500	65,200	14,700	71,900
Government	86,200	16,000	7,100	52,300	12,600	47,400
Business/industry	248,000	44,100	23,000	168,100	30,000	117,700
Engineering, total	450,800	253,700	14,300	252,900	132,100	64,300
Educational institution	25,100	15,700	9,300	7,100	5,900	1,400
Government	56,700	27,400	900	35,500	13,500	9,900
Business/industry	369,000	210,600	4,100	210,200	112,700	52,900
Non-S&E degree fields, total	1,490,800	276,900	339,900	998,000	221,600	494,800
Educational institution	414,400	64,300	272,900	186,600	44,000	108,100
Government	180,000	35,100	10,500	132,000	25,100	74,500
Business/industry	896,400	177,500	56,400	679,500	152,400	312,200
Doctorate						
All degree fields, total	736,700	437,200	249,000	290,600	88,300	164,200
Educational institution	349,100	226,900	227,300	96,300	25,700	42,300
Government	65,600	39,100	2,300	33,500	9,600	18,100
Business/industry	322,000	171,200	19,400	160,900	53,100	103,800
S&E degree fields, total	614,600	393,000	193,200	227,800	78,500	125,800
Educational institution	283,000	194,500	180,100	70,300	20,900	34,500
Government	56,800	36,700	2,200	26,400	8,600	14,500
Business/industry	274,700	161,900	10,900	131,000	48,900	76,800
Sciences, total	509,000	313,800	172,300	189,400	55,900	116,100
Educational institution	253,000	171,800	160,200	63,900	17,900	33,000
Government	48,700	30,300	2,000	23,100	6,600	13,700
Business/industry	207,300	111,700	10,100	102,400	31,300	69,400

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

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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
Doctorate — continued						
Computer/math sciences, total	40,600	26,600	19,300	10,500	13,700	2,400
Educational institution	22,400	15,200	18,700	3,900	3,000	1,100
Government	2,300	1,400	200	1,200	900	100
Business/industry	15,800	10,000	500	5,500	9,800	1,200
Life/related sciences, total	176,200	119,000	53,500	67,100	12,400	36,900
Educational institution	96,600	71,500	48,900	26,300	5,500	13,000
Government	17,200	12,100	800	8,100	1,600	3,800
Business/industry	62,400	35,400	3,800	32,600	5,300	20,000
Physical/related sciences, total	125,900	91,500	32,000	45,700	19,300	11,800
Educational institution	47,500	33,300	30,900	11,100	5,400	2,600
Government	12,700	10,100	100	4,300	2,800	1,500
Business/industry	65,700	48,100	1,000	30,300	11,100	7,600
Social/related sciences, total	166,400	76,800	67,500	66,200	10,400	65,100
Educational institution	86,500	51,800	61,800	22,500	3,900	16,300
Government	16,400	6,700	1,000	9,500	1,400	8,300
Business/industry	63,500	18,300	4,800	34,100	5,100	40,500
Engineering, total	105,600	79,200	20,900	38,400	22,600	9,700
Educational institution	30,100	22,600	19,900	6,500	3,000	1,400
Government	8,100	6,400	100	3,300	2,000	800
Business/industry	67,400	50,200	800	28,600	17,600	7,400
Non-S&E degree fields, total	122,100	44,200	55,800	62,800	9,900	38,500
Educational institution	66,100	32,400	47,200	25,900	4,700	7,900
Government	8,800	2,400	100	7,000	900	3,700
Business/industry	47,300	9,400	8,500	29,900	4,200	27,000

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. Sum of primary/secondary work activity categories exceeds total because of multiple responses.

SOURCE: National Science Foundation/Science Resources Statistics Division, 1999 SESTAT (Scientists and Engineers Statistical Data System)