

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	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>	84,000	82,000	76,000	33,000	19,000	44,000	30,000	30,000
Male	63,000	60,000	59,000	18,000	14,000	25,000	22,000	11,000
Female	56,000	56,000	50,000	29,000	13,000	37,000	20,000	29,000
S&E fields	73,000	67,000	65,000	23,000	14,000	35,000	25,000	23,000
Male	57,000	53,000	52,000	12,000	11,000	23,000	21,000	9,000
Female	46,000	41,000	37,000	20,000	10,000	27,000	14,000	22,000
Sciences	69,000	64,000	60,000	22,000	13,000	32,000	22,000	23,000
Male	49,000	46,000	44,000	11,000	10,000	18,000	17,000	9,000
Female	45,000	41,000	36,000	20,000	10,000	26,000	14,000	22,000
Biological/agricultural/environmental life sciences	31,000	27,000	27,000	9,000	5,000	14,000	10,000	10,000
Male	22,000	20,000	20,000	4,000	3,000	9,000	7,000	5,000
Female	20,000	17,000	16,000	7,000	4,000	11,000	7,000	8,000
Agricultural/food sciences	13,000	12,000	12,000	4,000	2,000	5,000	4,000	3,000
Male	10,000	9,000	9,000	2,000	1,000	4,000	4,000	2,000
Female	8,000	8,000	7,000	3,000	2,000	2,000	1,000	2,000
Biological sciences	28,000	25,000	25,000	7,000	4,000	13,000	8,000	9,000
Male	20,000	19,000	18,000	4,000	3,000	7,000	6,000	4,000
Female	18,000	16,000	15,000	6,000	4,000	10,000	6,000	8,000
Environmental life sciences	10,000	9,000	9,000	2,000	2,000	5,000	4,000	3,000
Male	8,000	8,000	8,000	1,000	1,000	4,000	3,000	2,000
Female	6,000	5,000	4,000	2,000	1,000	3,000	S	2,000
Computer/mathematical sciences	26,000	24,000	21,000	10,000	5,000	11,000	7,000	8,000
Male	19,000	18,000	18,000	4,000	4,000	7,000	6,000	3,000
Female	19,000	16,000	14,000	9,000	3,000	9,000	4,000	8,000
Computer/information sciences	19,000	18,000	16,000	7,000	4,000	6,000	3,000	5,000
Male	15,000	14,000	15,000	2,000	4,000	3,000	3,000	2,000
Female	13,000	12,000	10,000	7,000	3,000	5,000	1,000	5,000
Mathematical sciences	19,000	16,000	15,000	6,000	3,000	9,000	7,000	6,000
Male	14,000	12,000	12,000	3,000	3,000	6,000	6,000	2,000
Female	13,000	11,000	9,000	5,000	2,000	7,000	4,000	6,000
Physical/related sciences	18,000	16,000	15,000	4,000	3,000	9,000	7,000	5,000
Male	16,000	15,000	14,000	3,000	3,000	7,000	7,000	2,000
Female	11,000	9,000	8,000	4,000	1,000	6,000	3,000	5,000
Chemistry, except biochemistry	14,000	12,000	12,000	3,000	2,000	7,000	5,000	5,000
Male	11,000	11,000	10,000	2,000	1,000	5,000	4,000	2,000
Female	8,000	6,000	6,000	3,000	1,000	5,000	2,000	5,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Earth/atmospheric/ocean sciences	10,000	9,000	8,000	2,000	2,000	4,000	4,000	2,000
Male	9,000	8,000	8,000	2,000	2,000	4,000	4,000	2,000
Female	4,000	4,000	3,000	2,000	500	2,000	1,000	2,000
Physics/astronomy	7,000	6,000	6,000	2,000	1,000	3,000	3,000	1,000
Male	6,000	5,000	5,000	1,000	1,000	3,000	3,000	500
Female	4,000	3,000	3,000	1,000	500	1,000	1,000	1,000
Other physical sciences	6,000	5,000	5,000	1,000	1,000	3,000	2,000	1,000
Male	4,000	4,000	4,000	*	S	1,000	1,000	*
Female	4,000	3,000	3,000	1,000	S	2,000	S	1,000
Social/related sciences	56,000	50,000	49,000	18,000	10,000	24,000	16,000	20,000
Male	35,000	34,000	35,000	9,000	7,000	12,000	11,000	7,000
Female	40,000	33,000	30,000	17,000	8,000	22,000	11,000	19,000
Economics	21,000	20,000	20,000	6,000	4,000	9,000	7,000	6,000
Male	20,000	19,000	19,000	3,000	3,000	7,000	6,000	3,000
Female	11,000	9,000	7,000	5,000	3,000	6,000	3,000	5,000
Political/related sciences	27,000	23,000	23,000	6,000	6,000	10,000	6,000	7,000
Male	21,000	19,000	19,000	3,000	4,000	7,000	6,000	3,000
Female	16,000	14,000	13,000	5,000	4,000	7,000	3,000	6,000
Psychology	34,000	28,000	26,000	12,000	6,000	16,000	11,000	13,000
Male	18,000	16,000	15,000	6,000	3,000	7,000	7,000	3,000
Female	28,000	22,000	20,000	11,000	5,000	15,000	8,000	12,000
Sociology/anthropology	24,000	20,000	19,000	9,000	5,000	13,000	6,000	11,000
Male	14,000	14,000	14,000	3,000	3,000	5,000	3,000	3,000
Female	21,000	15,000	13,000	9,000	4,000	13,000	6,000	11,000
Other social sciences	19,000	17,000	16,000	5,000	2,000	7,000	5,000	5,000
Male	13,000	12,000	12,000	3,000	2,000	3,000	3,000	1,000
Female	14,000	13,000	12,000	5,000	1,000	6,000	3,000	5,000
Engineering	33,000	28,000	27,000	8,000	6,000	14,000	13,000	6,000
Male	32,000	28,000	28,000	6,000	6,000	13,000	13,000	4,000
Female	10,000	9,000	8,000	4,000	2,000	5,000	2,000	4,000
Aerospace/related engineering	8,000	7,000	7,000	1,000	1,000	2,000	2,000	500
Male	7,000	7,000	6,000	1,000	1,000	2,000	2,000	*
Female	2,000	2,000	2,000	500	S	500	S	*
Chemical engineering	9,000	7,000	7,000	1,000	1,000	4,000	4,000	2,000
Male	8,000	7,000	7,000	1,000	1,000	4,000	4,000	1,000
Female	3,000	3,000	3,000	1,000	500	2,000	1,000	1,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Civil/architectural engineering	13,000	12,000	11,000	3,000	2,000	5,000	5,000	2,000
Male	13,000	11,000	11,000	3,000	2,000	5,000	4,000	2,000
Female	4,000	3,000	3,000	1,000	1,000	1,000	1,000	1,000
Electrical/computer engineering	16,000	13,000	13,000	4,000	3,000	8,000	7,000	3,000
Male	15,000	13,000	13,000	3,000	3,000	8,000	7,000	3,000
Female	6,000	5,000	5,000	2,000	1,000	2,000	1,000	2,000
Industrial engineering	10,000	9,000	8,000	2,000	2,000	6,000	5,000	2,000
Male	10,000	8,000	8,000	1,000	2,000	5,000	5,000	1,000
Female	4,000	3,000	3,000	1,000	500	2,000	S	2,000
Mechanical engineering	16,000	15,000	14,000	4,000	3,000	7,000	7,000	2,000
Male	16,000	15,000	14,000	3,000	2,000	7,000	6,000	1,000
Female	4,000	4,000	3,000	3,000	1,000	1,000	1,000	1,000
Other engineering	13,000	12,000	11,000	3,000	2,000	6,000	5,000	3,000
Male	12,000	11,000	11,000	3,000	2,000	5,000	5,000	1,000
Female	4,000	3,000	3,000	2,000	1,000	2,000	1,000	2,000
S&E-related fields	42,000	39,000	37,000	21,000	7,000	24,000	15,000	17,000
Male	28,000	26,000	26,000	9,000	5,000	12,000	10,000	5,000
Female	33,000	29,000	28,000	20,000	6,000	21,000	12,000	17,000
Health	36,000	31,000	30,000	20,000	6,000	22,000	12,000	17,000
Male	20,000	18,000	18,000	7,000	3,000	9,000	8,000	4,000
Female	31,000	26,000	25,000	19,000	5,000	20,000	10,000	17,000
Science/mathematics teacher education	17,000	15,000	13,000	6,000	2,000	8,000	8,000	3,000
Male	10,000	10,000	9,000	3,000	2,000	5,000	5,000	S
Female	13,000	12,000	10,000	5,000	2,000	5,000	5,000	3,000
Technology/technical fields	15,000	14,000	14,000	4,000	3,000	6,000	4,000	4,000
Male	14,000	13,000	13,000	3,000	3,000	5,000	4,000	3,000
Female	5,000	5,000	4,000	2,000	1,000	3,000	1,000	2,000
Other S&E-related fields	15,000	15,000	14,000	5,000	1,000	4,000	2,000	3,000
Male	12,000	12,000	12,000	3,000	1,000	3,000	2,000	2,000
Female	8,000	8,000	7,000	4,000	1,000	3,000	1,000	3,000
Non-S&E fields	52,000	45,000	43,000	15,000	8,000	17,000	13,000	10,000
Male	35,000	33,000	32,000	10,000	6,000	11,000	10,000	4,000
Female	35,000	31,000	29,000	11,000	5,000	12,000	8,000	10,000
Arts/humanities	16,000	16,000	14,000	6,000	2,000	3,000	3,000	2,000
Male	12,000	12,000	11,000	4,000	S	2,000	2,000	1,000
Female	12,000	11,000	10,000	5,000	1,000	3,000	2,000	2,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Education, except science and mathematics								
teacher education	28,000	25,000	25,000	6,000	2,000	11,000	8,000	7,000
Male	17,000	16,000	15,000	4,000	2,000	7,000	6,000	2,000
Female	22,000	19,000	19,000	5,000	2,000	8,000	6,000	6,000
Management/administration	30,000	28,000	27,000	8,000	5,000	9,000	6,000	6,000
Male	22,000	21,000	21,000	5,000	4,000	6,000	6,000	2,000
Female	16,000	15,000	14,000	6,000	2,000	6,000	2,000	5,000
Sales/marketing	10,000	10,000	10,000	3,000	2,000	2,000	1,000	2,000
Male	8,000	8,000	8,000	1,000	1,000	1,000	1,000	S
Female	6,000	5,000	5,000	3,000	1,000	2,000	S	2,000
Social services/related	13,000	13,000	11,000	6,000	2,000	4,000	3,000	3,000
Male	9,000	9,000	8,000	3,000	S	3,000	3,000	1,000
Female	10,000	9,000	8,000	5,000	2,000	3,000	1,000	3,000
Other non-S&E fields	24,000	23,000	22,000	8,000	4,000	8,000	6,000	5,000
Male	18,000	17,000	17,000	5,000	3,000	4,000	4,000	1,000
Female	17,000	16,000	14,000	6,000	3,000	6,000	4,000	5,000
Bachelor's degrees	73,000	69,000	66,000	29,000	15,000	38,000	26,000	27,000
Male	55,000	51,000	50,000	13,000	11,000	23,000	21,000	10,000
Female	50,000	45,000	40,000	27,000	11,000	31,000	17,000	26,000
S&E fields	66,000	60,000	58,000	22,000	14,000	31,000	23,000	22,000
Male	53,000	48,000	47,000	11,000	10,000	21,000	19,000	9,000
Female	41,000	35,000	32,000	19,000	9,000	25,000	13,000	21,000
Sciences	64,000	59,000	56,000	21,000	12,000	30,000	20,000	22,000
Male	48,000	44,000	43,000	10,000	9,000	17,000	15,000	8,000
Female	41,000	35,000	31,000	19,000	9,000	25,000	13,000	21,000
Biological/agricultural/environmental life sciences	29,000	26,000	25,000	8,000	5,000	13,000	9,000	9,000
Male	21,000	19,000	19,000	4,000	3,000	8,000	6,000	5,000
Female	20,000	18,000	16,000	7,000	4,000	10,000	6,000	8,000
Agricultural/food sciences	13,000	12,000	12,000	4,000	2,000	4,000	4,000	3,000
Male	10,000	9,000	9,000	2,000	S	3,000	3,000	2,000
Female	8,000	8,000	7,000	3,000	2,000	2,000	S	2,000
Biological sciences	27,000	24,000	23,000	7,000	4,000	12,000	8,000	9,000
Male	19,000	17,000	17,000	4,000	3,000	7,000	5,000	4,000
Female	18,000	16,000	14,000	6,000	3,000	9,000	5,000	8,000
Environmental life sciences	9,000	7,000	7,000	2,000	2,000	4,000	2,000	2,000
Male	7,000	6,000	6,000	1,000	1,000	3,000	2,000	1,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	5,000	4,000	4,000	1,000	1,000	2,000	S	2,000
Computer/mathematical sciences	24,000	21,000	20,000	9,000	4,000	11,000	7,000	8,000
Male	18,000	17,000	17,000	3,000	4,000	6,000	5,000	3,000
Female	17,000	15,000	13,000	8,000	3,000	9,000	4,000	7,000
Computer/information sciences	17,000	16,000	15,000	6,000	4,000	6,000	2,000	5,000
Male	13,000	13,000	13,000	2,000	3,000	3,000	2,000	2,000
Female	11,000	11,000	9,000	6,000	2,000	5,000	1,000	5,000
Mathematical sciences	18,000	15,000	14,000	6,000	3,000	9,000	6,000	6,000
Male	13,000	12,000	12,000	2,000	2,000	5,000	5,000	2,000
Female	12,000	9,000	8,000	5,000	2,000	7,000	4,000	6,000
Physical/related sciences	16,000	14,000	13,000	4,000	3,000	8,000	7,000	5,000
Male	14,000	13,000	12,000	2,000	2,000	6,000	6,000	2,000
Female	10,000	8,000	7,000	3,000	1,000	6,000	3,000	5,000
Chemistry, except biochemistry	13,000	11,000	11,000	3,000	1,000	6,000	4,000	5,000
Male	10,000	9,000	9,000	2,000	1,000	4,000	4,000	2,000
Female	8,000	6,000	5,000	3,000	1,000	5,000	2,000	4,000
Earth/atmospheric/ocean sciences	9,000	8,000	8,000	2,000	2,000	4,000	3,000	2,000
Male	8,000	7,000	7,000	1,000	2,000	3,000	3,000	2,000
Female	4,000	3,000	3,000	1,000	500	2,000	S	1,000
Physics/astronomy	7,000	6,000	6,000	1,000	1,000	3,000	3,000	1,000
Male	5,000	5,000	5,000	1,000	1,000	3,000	3,000	500
Female	4,000	3,000	3,000	1,000	*	1,000	S	500
Other physical sciences	6,000	5,000	5,000	500	S	3,000	2,000	1,000
Male	4,000	3,000	3,000	S	S	1,000	S	S
Female	4,000	3,000	3,000	500	S	2,000	S	1,000
Social/related sciences	52,000	45,000	43,000	16,000	10,000	23,000	14,000	19,000
Male	33,000	32,000	32,000	8,000	7,000	12,000	11,000	6,000
Female	36,000	29,000	26,000	15,000	8,000	20,000	10,000	18,000
Economics	20,000	19,000	18,000	6,000	4,000	9,000	6,000	6,000
Male	19,000	18,000	18,000	3,000	3,000	6,000	6,000	3,000
Female	10,000	8,000	6,000	5,000	3,000	6,000	2,000	5,000
Political/related sciences	25,000	21,000	21,000	5,000	6,000	9,000	6,000	7,000
Male	20,000	18,000	18,000	3,000	4,000	7,000	6,000	3,000
Female	15,000	12,000	12,000	4,000	4,000	8,000	3,000	6,000
Psychology	31,000	25,000	22,000	10,000	5,000	13,000	9,000	11,000
Male	17,000	15,000	14,000	5,000	3,000	7,000	6,000	3,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	25,000	21,000	17,000	10,000	5,000	12,000	7,000	11,000
Sociology/anthropology	24,000	20,000	19,000	8,000	5,000	13,000	6,000	11,000
Male	14,000	13,000	14,000	3,000	3,000	5,000	3,000	3,000
Female	21,000	15,000	14,000	8,000	4,000	13,000	5,000	11,000
Other social sciences	18,000	16,000	16,000	5,000	2,000	6,000	4,000	4,000
Male	12,000	11,000	11,000	2,000	2,000	3,000	3,000	1,000
Female	13,000	12,000	11,000	5,000	1,000	5,000	3,000	4,000
Engineering	31,000	25,000	25,000	7,000	6,000	14,000	13,000	5,000
Male	29,000	24,000	24,000	5,000	5,000	13,000	13,000	3,000
Female	9,000	8,000	7,000	4,000	2,000	4,000	2,000	4,000
Aerospace/related engineering	7,000	7,000	6,000	1,000	1,000	2,000	2,000	*
Male	7,000	6,000	6,000	1,000	1,000	2,000	2,000	S
Female	2,000	2,000	2,000	*	S	S	S	S
Chemical engineering	8,000	7,000	7,000	1,000	1,000	4,000	3,000	1,000
Male	7,000	6,000	6,000	1,000	1,000	3,000	3,000	1,000
Female	3,000	2,000	2,000	1,000	500	1,000	S	1,000
Civil/architectural engineering	12,000	11,000	10,000	2,000	2,000	5,000	4,000	2,000
Male	11,000	11,000	10,000	2,000	2,000	4,000	4,000	2,000
Female	3,000	3,000	2,000	1,000	1,000	1,000	S	1,000
Electrical/computer engineering	14,000	11,000	11,000	3,000	3,000	7,000	7,000	3,000
Male	13,000	11,000	10,000	3,000	3,000	7,000	6,000	2,000
Female	5,000	5,000	4,000	2,000	1,000	2,000	S	2,000
Industrial engineering	10,000	8,000	8,000	2,000	2,000	5,000	5,000	2,000
Male	10,000	8,000	8,000	1,000	2,000	5,000	5,000	1,000
Female	4,000	3,000	3,000	1,000	500	2,000	S	2,000
Mechanical engineering	15,000	13,000	12,000	4,000	3,000	7,000	6,000	1,000
Male	14,000	13,000	12,000	3,000	2,000	6,000	6,000	1,000
Female	4,000	4,000	3,000	3,000	1,000	1,000	S	1,000
Other engineering	11,000	10,000	10,000	3,000	2,000	5,000	5,000	2,000
Male	11,000	10,000	9,000	2,000	1,000	5,000	5,000	1,000
Female	4,000	3,000	3,000	1,000	1,000	2,000	S	2,000
S&E-related fields	40,000	36,000	35,000	19,000	6,000	20,000	12,000	15,000
Male	23,000	21,000	22,000	6,000	3,000	9,000	7,000	5,000
Female	32,000	28,000	26,000	18,000	4,000	17,000	10,000	15,000
Health	34,000	29,000	27,000	18,000	4,000	18,000	10,000	15,000
Male	14,000	12,000	12,000	4,000	1,000	5,000	4,000	4,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	30,000	25,000	23,000	17,000	4,000	17,000	9,000	15,000
Science/mathematics teacher education	14,000	13,000	11,000	5,000	2,000	6,000	5,000	3,000
Male	8,000	8,000	7,000	2,000	1,000	4,000	4,000	S
Female	10,000	9,000	8,000	4,000	S	4,000	4,000	3,000
Technology/technical fields	14,000	13,000	13,000	3,000	3,000	5,000	4,000	4,000
Male	14,000	12,000	12,000	3,000	3,000	4,000	4,000	3,000
Female	5,000	5,000	4,000	2,000	1,000	3,000	S	2,000
Other S&E-related fields	13,000	13,000	12,000	5,000	1,000	4,000	2,000	3,000
Male	11,000	11,000	11,000	3,000	1,000	3,000	2,000	2,000
Female	7,000	6,000	6,000	3,000	S	3,000	S	3,000
Non-S&E fields	29,000	29,000	27,000	9,000	2,000	4,000	2,000	3,000
Male	21,000	20,000	20,000	4,000	S	2,000	2,000	2,000
Female	21,000	21,000	19,000	8,000	S	3,000	S	2,000
Arts and humanities	15,000	15,000	14,000	5,000	S	2,000	S	2,000
Male	10,000	10,000	10,000	1,000	S	S	S	S
Female	10,000	10,000	9,000	5,000	S	S	S	S
Education, except science/mathematics teacher education	11,000	11,000	11,000	3,000	S	2,000	S	S
Male	8,000	8,000	8,000	1,000	S	S	S	S
Female	10,000	10,000	10,000	3,000	S	S	S	S
Management/administration	19,000	18,000	17,000	6,000	S	2,000	2,000	2,000
Male	14,000	14,000	14,000	3,000	S	2,000	2,000	S
Female	11,000	11,000	10,000	5,000	S	2,000	S	S
Sales/marketing	5,000	5,000	5,000	2,000	S	S	S	S
Male	4,000	4,000	4,000	S	S	S	S	S
Female	4,000	4,000	4,000	2,000	S	S	S	S
Social services/related	5,000	5,000	5,000	2,000	S	S	S	S
Male	4,000	4,000	4,000	S	S	S	S	S
Female	3,000	3,000	3,000	2,000	S	S	S	S
Other non-S&E fields	11,000	11,000	10,000	4,000	S	1,000	S	S
Male	7,000	7,000	6,000	2,000	S	S	S	S
Female	8,000	8,000	7,000	4,000	S	S	S	S
Master's degrees	50,000	47,000	45,000	17,000	10,000	22,000	17,000	14,000
Male	34,000	33,000	32,000	10,000	7,000	13,000	13,000	4,000
Female	34,000	32,000	31,000	14,000	7,000	18,000	12,000	13,000
S&E fields	33,000	28,000	26,000	9,000	5,000	14,000	12,000	8,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	24,000	22,000	21,000	5,000	4,000	10,000	10,000	3,000
Female	20,000	17,000	15,000	8,000	3,000	10,000	6,000	7,000
Sciences	30,000	25,000	23,000	9,000	4,000	13,000	11,000	7,000
Male	20,000	18,000	17,000	5,000	3,000	8,000	8,000	3,000
Female	19,000	16,000	15,000	7,000	3,000	10,000	6,000	7,000
Biological/agricultural/environmental life sciences	11,000	9,000	9,000	3,000	1,000	6,000	5,000	3,000
Male	8,000	7,000	7,000	1,000	1,000	4,000	4,000	1,000
Female	7,000	6,000	6,000	2,000	1,000	4,000	3,000	2,000
Agricultural/food sciences	4,000	4,000	4,000	1,000	S	1,000	1,000	500
Male	3,000	3,000	3,000	1,000	S	1,000	1,000	S
Female	3,000	3,000	3,000	1,000	S	500	S	*
Biological sciences	9,000	7,000	7,000	2,000	1,000	4,000	3,000	3,000
Male	6,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Female	6,000	5,000	5,000	2,000	1,000	3,000	2,000	2,000
Environmental life sciences	5,000	4,000	4,000	1,000	S	4,000	4,000	1,000
Male	4,000	3,000	3,000	S	S	3,000	3,000	1,000
Female	3,000	2,000	2,000	1,000	S	2,000	S	*
Computer/mathematical sciences	12,000	11,000	10,000	4,000	3,000	4,000	3,000	2,000
Male	10,000	9,000	9,000	2,000	2,000	3,000	3,000	1,000
Female	8,000	7,000	6,000	4,000	2,000	3,000	1,000	2,000
Computer/information sciences	11,000	10,000	9,000	4,000	2,000	3,000	2,000	2,000
Male	9,000	9,000	9,000	1,000	1,000	2,000	1,000	1,000
Female	7,000	6,000	5,000	4,000	1,000	2,000	1,000	2,000
Mathematical sciences	7,000	5,000	5,000	2,000	2,000	3,000	3,000	1,000
Male	6,000	4,000	4,000	2,000	2,000	3,000	3,000	1,000
Female	4,000	4,000	3,000	2,000	500	2,000	1,000	1,000
Physical/related sciences	7,000	7,000	6,000	3,000	1,000	3,000	3,000	2,000
Male	6,000	6,000	5,000	2,000	1,000	3,000	3,000	1,000
Female	4,000	3,000	2,000	2,000	500	2,000	1,000	1,000
Chemistry, except biochemistry	5,000	4,000	4,000	2,000	500	2,000	2,000	1,000
Male	4,000	3,000	3,000	1,000	500	2,000	2,000	1,000
Female	2,000	2,000	1,000	2,000	500	1,000	500	1,000
Earth/atmospheric/ocean sciences	5,000	4,000	4,000	2,000	500	2,000	2,000	1,000
Male	4,000	4,000	3,000	1,000	S	1,000	1,000	500
Female	2,000	2,000	2,000	1,000	500	1,000	S	1,000
Physics/astronomy	4,000	3,000	3,000	1,000	1,000	2,000	1,000	1,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	3,000	3,000	3,000	1,000	1,000	1,000	1,000	500
Female	1,000	1,000	1,000	*	S	1,000	S	S
Other physical sciences	2,000	1,000	1,000	S	S	S	S	S
Male	1,000	1,000	1,000	S	S	S	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Social/related sciences	22,000	19,000	18,000	7,000	3,000	10,000	7,000	7,000
Male	14,000	13,000	13,000	4,000	2,000	5,000	5,000	2,000
Female	15,000	13,000	12,000	6,000	2,000	9,000	5,000	6,000
Economics	7,000	6,000	6,000	2,000	500	3,000	3,000	1,000
Male	6,000	6,000	5,000	1,000	500	3,000	3,000	1,000
Female	4,000	3,000	3,000	1,000	S	2,000	1,000	1,000
Political/related sciences	9,000	8,000	7,000	2,000	1,000	3,000	3,000	2,000
Male	7,000	6,000	6,000	1,000	1,000	2,000	2,000	1,000
Female	5,000	5,000	4,000	2,000	1,000	2,000	1,000	1,000
Psychology	16,000	14,000	14,000	6,000	2,000	8,000	5,000	6,000
Male	9,000	8,000	8,000	3,000	1,000	3,000	3,000	2,000
Female	13,000	10,000	10,000	5,000	2,000	8,000	4,000	6,000
Sociology/anthropology	6,000	5,000	4,000	3,000	1,000	2,000	2,000	1,000
Male	4,000	3,000	3,000	1,000	1,000	1,000	1,000	1,000
Female	4,000	4,000	3,000	3,000	S	2,000	1,000	1,000
Other social sciences	7,000	6,000	5,000	2,000	1,000	3,000	2,000	2,000
Male	4,000	4,000	4,000	2,000	500	2,000	2,000	*
Female	5,000	5,000	4,000	2,000	1,000	2,000	1,000	2,000
Engineering	13,000	12,000	11,000	4,000	2,000	6,000	5,000	3,000
Male	13,000	12,000	11,000	3,000	2,000	5,000	5,000	2,000
Female	5,000	4,000	4,000	2,000	1,000	2,000	500	2,000
Aerospace/related engineering	2,000	2,000	2,000	500	S	1,000	1,000	*
Male	2,000	2,000	2,000	*	S	1,000	1,000	S
Female	500	500	500	*	S	S	S	S
Chemical engineering	4,000	3,000	3,000	1,000	500	1,000	1,000	1,000
Male	3,000	3,000	3,000	1,000	*	1,000	1,000	1,000
Female	2,000	1,000	1,000	S	S	500	S	500
Civil/architectural engineering	5,000	5,000	4,000	2,000	1,000	2,000	2,000	1,000
Male	5,000	5,000	4,000	2,000	1,000	2,000	2,000	S
Female	2,000	2,000	1,000	1,000	S	500	S	500
Electrical/computer engineering	8,000	6,000	6,000	2,000	1,000	4,000	3,000	2,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	7,000	6,000	6,000	2,000	1,000	4,000	3,000	1,000
Female	3,000	2,000	2,000	500	1,000	2,000	S	2,000
Industrial engineering	3,000	2,000	2,000	500	1,000	2,000	2,000	1,000
Male	3,000	2,000	2,000	*	1,000	2,000	2,000	1,000
Female	2,000	1,000	1,000	*	*	1,000	S	1,000
Mechanical engineering	5,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Male	5,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Female	1,000	1,000	1,000	500	S	1,000	S	1,000
Other engineering	6,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000
Male	6,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Female	2,000	2,000	2,000	1,000	500	1,000	S	1,000
S&E-related fields	22,000	20,000	20,000	10,000	4,000	11,000	7,000	7,000
Male	12,000	12,000	11,000	4,000	3,000	4,000	4,000	1,000
Female	19,000	17,000	16,000	9,000	3,000	10,000	6,000	7,000
Health	17,000	16,000	16,000	8,000	4,000	8,000	5,000	6,000
Male	7,000	8,000	7,000	2,000	2,000	2,000	2,000	1,000
Female	16,000	15,000	14,000	8,000	3,000	8,000	5,000	6,000
Science/mathematics teacher education	9,000	8,000	7,000	4,000	1,000	5,000	4,000	2,000
Male	6,000	6,000	5,000	2,000	S	3,000	3,000	S
Female	8,000	7,000	6,000	4,000	1,000	3,000	3,000	2,000
Technology/technical fields	4,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000
Male	4,000	3,000	3,000	1,000	1,000	1,000	1,000	S
Female	3,000	2,000	2,000	S	S	1,000	S	1,000
Other S&E-related fields	7,000	7,000	7,000	2,000	1,000	2,000	2,000	S
Male	6,000	6,000	6,000	2,000	S	1,000	1,000	S
Female	3,000	3,000	3,000	1,000	S	1,000	S	S
Non-S&E fields	40,000	34,000	34,000	11,000	7,000	15,000	12,000	10,000
Male	28,000	26,000	26,000	8,000	5,000	10,000	9,000	3,000
Female	25,000	21,000	21,000	8,000	4,000	11,000	7,000	9,000
Arts/humanities	9,000	9,000	7,000	4,000	1,000	2,000	2,000	1,000
Male	7,000	7,000	5,000	4,000	S	2,000	2,000	S
Female	6,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000
Education, except science/mathematics teacher education	24,000	21,000	21,000	5,000	2,000	11,000	8,000	7,000
Male	14,000	12,000	12,000	3,000	1,000	6,000	6,000	1,000
Female	19,000	16,000	16,000	4,000	2,000	8,000	5,000	6,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Management/administration	23,000	20,000	20,000	5,000	5,000	8,000	6,000	6,000
Male	18,000	17,000	17,000	4,000	4,000	6,000	5,000	2,000
Female	13,000	11,000	11,000	4,000	2,000	6,000	2,000	5,000
Sales/marketing	9,000	8,000	8,000	2,000	1,000	2,000	1,000	2,000
Male	7,000	7,000	7,000	1,000	1,000	1,000	1,000	S
Female	4,000	3,000	3,000	2,000	1,000	2,000	S	2,000
Social services/related	11,000	11,000	10,000	5,000	2,000	4,000	3,000	3,000
Male	7,000	7,000	6,000	2,000	S	3,000	2,000	1,000
Female	9,000	9,000	7,000	5,000	2,000	3,000	1,000	3,000
Other non-S&E fields	13,000	12,000	12,000	3,000	3,000	5,000	3,000	3,000
Male	10,000	10,000	9,000	2,000	2,000	2,000	2,000	S
Female	9,000	8,000	8,000	3,000	2,000	4,000	3,000	3,000
Doctorate degrees	11,000	11,000	10,000	3,000	2,000	5,000	4,000	2,000
Male	9,000	8,000	8,000	2,000	1,000	3,000	3,000	1,000
Female	6,000	6,000	6,000	2,000	1,000	3,000	3,000	2,000
S&E fields	5,000	5,000	5,000	2,000	1,000	3,000	2,000	1,000
Male	4,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000
Female	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000
Sciences	5,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000
Male	4,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000
Female	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000
Biological/agricultural/environmental life sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	500
Male	3,000	2,000	2,000	1,000	500	1,000	1,000	500
Female	3,000	2,000	2,000	1,000	1,000	2,000	2,000	500
Agricultural/food sciences	1,000	1,000	1,000	500	*	500	500	*
Male	1,000	1,000	1,000	500	*	500	500	S
Female	500	500	500	*	*	500	*	*
Biological sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	500
Male	2,000	2,000	2,000	1,000	500	1,000	1,000	500
Female	3,000	2,000	2,000	1,000	1,000	2,000	2,000	500
Environmental life sciences	500	500	500	*	S	500	500	S
Male	500	500	500	*	S	500	500	S
Female	500	500	500	*	S	S	S	S
Computer/mathematical sciences	2,000	2,000	2,000	500	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	500
Female	2,000	2,000	2,000	500	*	500	*	*

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Computer/information sciences	1,000	1,000	1,000	500	*	*	*	*
Male	1,000	1,000	1,000	500	*	*	S	*
Female	500	500	500	*	S	*	S	*
Mathematical sciences	2,000	2,000	2,000	500	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	*
Female	2,000	2,000	2,000	500	*	500	*	*
Physical/related sciences	2,000	2,000	2,000	500	500	1,000	1,000	1,000
Male	2,000	2,000	2,000	500	500	1,000	1,000	500
Female	1,000	1,000	1,000	500	500	1,000	500	1,000
Chemistry, except biochemistry	2,000	2,000	2,000	500	500	1,000	1,000	500
Male	1,000	1,000	1,000	500	500	1,000	1,000	500
Female	1,000	1,000	1,000	500	*	500	500	500
Earth/atmospheric/ocean sciences	1,000	1,000	1,000	500	*	500	500	*
Male	1,000	1,000	1,000	500	*	500	500	*
Female	500	500	500	*	*	*	*	*
Physics/astronomy	1,000	1,000	1,000	500	500	1,000	500	500
Male	1,000	1,000	1,000	500	500	500	500	*
Female	1,000	500	500	*	*	500	*	500
Other physical sciences	1,000	1,000	1,000	*	S	*	*	S
Male	1,000	1,000	1,000	*	S	*	*	S
Female	500	500	500	S	S	S	S	S
Social/related sciences	2,000	2,000	2,000	1,000	500	1,000	1,000	1,000
Male	1,000	1,000	1,000	1,000	500	1,000	1,000	1,000
Female	2,000	1,000	1,000	1,000	500	1,000	500	1,000
Economics	1,000	1,000	1,000	500	*	500	500	500
Male	1,000	1,000	500	500	*	500	500	*
Female	500	500	500	*	*	*	*	*
Political/related sciences	1,000	1,000	1,000	500	*	1,000	500	1,000
Male	1,000	1,000	1,000	500	*	500	500	S
Female	1,000	500	500	*	*	1,000	*	1,000
Psychology	1,000	1,000	1,000	1,000	500	1,000	500	500
Male	1,000	1,000	1,000	500	500	500	500	500
Female	1,000	1,000	1,000	1,000	500	500	500	500
Sociology/anthropology	1,000	1,000	1,000	500	500	500	500	500
Male	500	500	500	500	*	500	500	*
Female	1,000	1,000	1,000	500	*	500	500	*

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other social sciences	1,000	1,000	1,000	1,000	*	500	500	500
Male	1,000	1,000	1,000	1,000	S	500	500	*
Female	500	500	500	500	*	500	500	500
Engineering	2,000	2,000	2,000	1,000	1,000	1,000	1,000	500
Male	2,000	2,000	2,000	1,000	1,000	1,000	1,000	500
Female	500	500	500	500	*	500	*	500
Aerospace/related engineering	1,000	1,000	1,000	500	S	500	500	S
Male	1,000	1,000	1,000	500	S	500	500	S
Female	*	*	*	S	S	S	S	S
Chemical engineering	1,000	1,000	1,000	500	500	500	500	*
Male	1,000	1,000	1,000	500	*	500	500	S
Female	500	500	500	*	S	*	S	*
Civil/architectural engineering	1,000	1,000	1,000	500	*	500	500	S
Male	1,000	1,000	1,000	*	*	500	500	S
Female	500	500	500	*	S	S	S	S
Electrical/computer engineering	1,000	1,000	1,000	500	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	500
Female	500	500	500	*	*	*	S	*
Industrial engineering	500	500	500	S	S	*	*	*
Male	500	500	500	S	S	*	S	S
Female	500	500	500	S	S	S	S	S
Mechanical engineering	1,000	1,000	1,000	500	500	500	500	*
Male	1,000	1,000	1,000	500	500	500	500	S
Female	500	500	500	S	S	S	S	S
Other engineering	1,000	1,000	1,000	500	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	500
Female	500	500	500	*	*	*	S	*
S&E-related fields	5,000	4,000	4,000	1,000	500	2,000	2,000	1,000
Male	4,000	4,000	4,000	1,000	*	2,000	2,000	1,000
Female	3,000	3,000	3,000	1,000	*	1,000	500	500
Health	3,000	3,000	3,000	1,000	500	1,000	1,000	500
Male	2,000	1,000	1,000	500	*	1,000	1,000	*
Female	2,000	2,000	2,000	500	*	1,000	500	500
Science/mathematics teacher education	3,000	2,000	2,000	500	S	1,000	1,000	S
Male	2,000	2,000	2,000	S	S	1,000	1,000	S
Female	1,000	1,000	1,000	S	S	S	S	S

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Technology/technical fields	1,000	1,000	1,000	S	S	S	S	S
Male	1,000	1,000	1,000	S	S	S	S	S
Female	S	S	S	S	S	S	S	S
Other S&E-related fields	3,000	3,000	3,000	S	S	S	S	S
Male	3,000	3,000	3,000	S	S	S	S	S
Female	1,000	1,000	500	S	S	S	S	S
Non-S&E degrees	8,000	8,000	8,000	2,000	1,000	3,000	3,000	1,000
Male	7,000	6,000	6,000	1,000	S	2,000	2,000	S
Female	5,000	4,000	4,000	2,000	1,000	3,000	2,000	1,000
Arts/humanities	2,000	2,000	2,000	1,000	S	1,000	1,000	S
Male	2,000	2,000	2,000	S	S	1,000	1,000	S
Female	1,000	1,000	1,000	1,000	S	S	S	S
Education, except science/mathematics teacher education	7,000	6,000	6,000	2,000	1,000	2,000	2,000	S
Male	6,000	5,000	5,000	1,000	S	2,000	2,000	S
Female	4,000	3,000	3,000	1,000	S	1,000	1,000	S
Management/administration	3,000	2,000	2,000	1,000	S	1,000	1,000	S
Male	2,000	2,000	2,000	S	S	S	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Sales/marketing	500	500	500	S	S	S	S	S
Male	500	500	500	S	S	S	S	S
Female	500	500	500	S	S	S	S	S
Social services/related	3,000	3,000	3,000	1,000	S	S	S	S
Male	3,000	3,000	3,000	S	S	S	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Other non-S&E fields	4,000	3,000	3,000	1,000	S	2,000	2,000	S
Male	2,000	2,000	2,000	1,000	S	S	S	S
Female	3,000	2,000	2,000	S	S	2,000	S	S

\* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is 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. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

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