

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
All degree levels and fields ^a	82,000	74,000	73,000	29,000	32,000	42,000	26,000	33,000	34,000	21,000	28,000
Male	60,000	57,000	58,000	23,000	19,000	25,000	16,000	19,000	26,000	15,000	21,000
Female	56,000	51,000	43,000	17,000	26,000	32,000	19,000	26,000	22,000	13,000	19,000
S&E fields	67,000	59,000	57,000	17,000	18,000	26,000	17,000	20,000	26,000	15,000	20,000
Male	53,000	47,000	47,000	14,000	12,000	16,000	12,000	12,000	22,000	13,000	17,000
Female	41,000	35,000	31,000	11,000	16,000	18,000	10,000	15,000	15,000	9,000	12,000
Sciences	64,000	55,000	52,000	16,000	18,000	25,000	16,000	20,000	24,000	14,000	19,000
Male	46,000	41,000	41,000	13,000	11,000	15,000	11,000	12,000	19,000	12,000	15,000
Female	41,000	35,000	30,000	11,000	16,000	18,000	10,000	15,000	14,000	8,000	12,000
Biological/agricultural/environmental life sciences	27,000	25,000	21,000	8,000	9,000	12,000	9,000	9,000	11,000	7,000	8,000
Male	20,000	18,000	16,000	6,000	5,000	9,000	7,000	6,000	9,000	6,000	7,000
Female	17,000	15,000	13,000	4,000	7,000	9,000	5,000	7,000	7,000	4,000	5,000
Agricultural/food sciences	12,000	10,000	9,000	4,000	2,000	5,000	3,000	4,000	5,000	3,000	3,000
Male	9,000	8,000	7,000	3,000	1,000	4,000	2,000	4,000	4,000	3,000	2,000
Female	8,000	8,000	7,000	3,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Biological sciences	25,000	21,000	19,000	7,000	8,000	12,000	8,000	8,000	9,000	5,000	7,000
Male	19,000	16,000	14,000	5,000	5,000	8,000	6,000	4,000	7,000	4,000	5,000
Female	16,000	13,000	11,000	4,000	6,000	8,000	5,000	6,000	6,000	3,000	5,000
Environmental life sciences	9,000	7,000	7,000	2,000	2,000	2,000	2,000	1,000	5,000	3,000	4,000
Male	8,000	6,000	6,000	2,000	1,000	2,000	2,000	1,000	5,000	2,000	4,000
Female	5,000	4,000	4,000	S	2,000	1,000	1,000	1,000	2,000	1,000	2,000
Computer/mathematical sciences	24,000	23,000	21,000	5,000	5,000	9,000	6,000	8,000	7,000	5,000	5,000
Male	18,000	18,000	17,000	4,000	2,000	6,000	4,000	5,000	7,000	5,000	4,000
Female	16,000	14,000	12,000	3,000	5,000	7,000	4,000	6,000	4,000	2,000	3,000
Computer/information sciences	18,000	17,000	16,000	4,000	4,000	7,000	5,000	5,000	6,000	4,000	4,000
Male	14,000	13,000	13,000	3,000	2,000	4,000	3,000	3,000	6,000	4,000	3,000
Female	12,000	11,000	9,000	2,000	4,000	4,000	3,000	3,000	3,000	2,000	3,000
Mathematical sciences	16,000	14,000	13,000	3,000	3,000	8,000	4,000	7,000	4,000	3,000	3,000
Male	12,000	12,000	12,000	3,000	1,000	5,000	3,000	4,000	4,000	3,000	2,000
Female	11,000	8,000	7,000	2,000	2,000	6,000	3,000	6,000	2,000	1,000	1,000
Physical/related sciences	16,000	14,000	12,000	5,000	4,000	7,000	5,000	5,000	5,000	3,000	4,000
Male	15,000	13,000	11,000	4,000	3,000	5,000	3,000	4,000	5,000	3,000	3,000
Female	9,000	7,000	6,000	2,000	2,000	4,000	3,000	3,000	3,000	2,000	2,000
Chemistry, except biochemistry	12,000	11,000	9,000	3,000	4,000	5,000	3,000	4,000	3,000	2,000	3,000
Male	11,000	9,000	7,000	3,000	3,000	4,000	2,000	3,000	3,000	1,000	2,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	6,000	6,000	5,000	1,000	2,000	3,000	2,000	2,000	2,000	1,000	1,000
Earth/atmospheric/ocean sciences	9,000	7,000	7,000	3,000	1,000	3,000	2,000	3,000	4,000	2,000	3,000
Male	8,000	7,000	6,000	3,000	1,000	3,000	1,000	3,000	3,000	2,000	2,000
Female	4,000	2,000	2,000	1,000	1,000	2,000	1,000	1,000	2,000	1,000	2,000
Physics/astronomy	6,000	5,000	5,000	1,000	1,000	4,000	2,000	3,000	1,000	1,000	500
Male	5,000	5,000	5,000	1,000	500	2,000	2,000	1,000	1,000	1,000	500
Female	3,000	1,000	1,000	*	500	3,000	1,000	3,000	1,000	1,000	500
Other physical sciences	5,000	4,000	4,000	1,000	1,000	3,000	3,000	1,000	2,000	1,000	2,000
Male	4,000	3,000	3,000	1,000	S	2,000	2,000	500	2,000	1,000	2,000
Female	3,000	3,000	2,000	1,000	S	2,000	1,000	1,000	1,000	500	1,000
Social/related sciences	50,000	43,000	41,000	13,000	15,000	18,000	11,000	15,000	18,000	11,000	15,000
Male	34,000	31,000	31,000	10,000	9,000	9,000	6,000	7,000	14,000	9,000	12,000
Female	33,000	28,000	24,000	8,000	13,000	15,000	8,000	13,000	12,000	7,000	11,000
Economics	20,000	20,000	19,000	7,000	4,000	4,000	3,000	2,000	4,000	3,000	3,000
Male	19,000	18,000	17,000	6,000	3,000	3,000	3,000	2,000	4,000	2,000	3,000
Female	9,000	8,000	8,000	3,000	3,000	2,000	1,000	2,000	2,000	1,000	1,000
Political/related sciences	23,000	20,000	19,000	6,000	7,000	6,000	4,000	4,000	10,000	6,000	8,000
Male	19,000	18,000	18,000	4,000	5,000	4,000	2,000	3,000	9,000	6,000	7,000
Female	14,000	11,000	10,000	4,000	5,000	5,000	4,000	3,000	5,000	3,000	4,000
Psychology	28,000	21,000	18,000	8,000	10,000	13,000	6,000	12,000	12,000	6,000	10,000
Male	16,000	14,000	12,000	5,000	5,000	5,000	3,000	5,000	7,000	4,000	6,000
Female	22,000	18,000	15,000	6,000	9,000	12,000	5,000	10,000	9,000	5,000	8,000
Sociology/anthropology	20,000	17,000	15,000	5,000	9,000	8,000	5,000	7,000	10,000	5,000	10,000
Male	14,000	12,000	11,000	3,000	4,000	4,000	2,000	3,000	8,000	4,000	7,000
Female	15,000	13,000	10,000	4,000	8,000	7,000	4,000	6,000	7,000	4,000	6,000
Other social sciences	17,000	15,000	14,000	5,000	5,000	7,000	4,000	6,000	6,000	5,000	4,000
Male	12,000	11,000	10,000	4,000	3,000	4,000	3,000	4,000	5,000	4,000	3,000
Female	13,000	10,000	9,000	3,000	4,000	6,000	3,000	5,000	4,000	2,000	3,000
Engineering	28,000	26,000	25,000	6,000	5,000	6,000	4,000	4,000	8,000	6,000	6,000
Male	28,000	26,000	24,000	6,000	5,000	5,000	4,000	3,000	8,000	6,000	6,000
Female	9,000	8,000	7,000	3,000	2,000	3,000	2,000	2,000	4,000	2,000	3,000
Aerospace/related engineering	7,000	7,000	6,000	2,000	1,000	1,000	1,000	*	2,000	1,000	1,000
Male	7,000	6,000	6,000	1,000	1,000	500	500	S	1,000	1,000	1,000
Female	2,000	2,000	1,000	S	S	1,000	1,000	S	1,000	1,000	S
Chemical engineering	7,000	7,000	7,000	1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,000

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Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	7,000	6,000	6,000	1,000	500	1,000	1,000	500	2,000	2,000	1,000
Female	3,000	2,000	2,000	*	1,000	1,000	500	1,000	2,000	1,000	1,000
Civil/architectural engineering	12,000	10,000	10,000	3,000	3,000	2,000	1,000	2,000	5,000	2,000	4,000
Male	11,000	10,000	10,000	3,000	3,000	2,000	1,000	1,000	4,000	2,000	4,000
Female	3,000	3,000	2,000	1,000	S	1,000	500	1,000	2,000	1,000	1,000
Electrical/computer engineering	13,000	13,000	12,000	3,000	2,000	3,000	2,000	1,000	4,000	3,000	3,000
Male	13,000	12,000	12,000	2,000	2,000	3,000	2,000	1,000	3,000	3,000	2,000
Female	5,000	5,000	4,000	2,000	1,000	1,000	500	1,000	2,000	1,000	1,000
Industrial engineering	9,000	8,000	8,000	1,000	2,000	1,000	500	1,000	2,000	2,000	2,000
Male	8,000	8,000	7,000	1,000	2,000	1,000	500	1,000	2,000	1,000	1,000
Female	3,000	3,000	3,000	500	500	1,000	500	1,000	2,000	1,000	2,000
Mechanical engineering	15,000	14,000	13,000	4,000	3,000	3,000	2,000	2,000	4,000	3,000	2,000
Male	15,000	13,000	13,000	4,000	2,000	2,000	2,000	1,000	4,000	3,000	2,000
Female	4,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000	500	500	*
Other engineering	12,000	10,000	10,000	3,000	1,000	3,000	2,000	2,000	4,000	3,000	2,000
Male	11,000	10,000	9,000	3,000	1,000	2,000	2,000	2,000	3,000	2,000	2,000
Female	3,000	3,000	3,000	1,000	500	1,000	1,000	1,000	2,000	2,000	1,000
S&E-related fields	39,000	36,000	34,000	16,000	20,000	24,000	17,000	17,000	15,000	9,000	13,000
Male	26,000	24,000	23,000	11,000	9,000	13,000	8,000	9,000	10,000	6,000	8,000
Female	29,000	29,000	25,000	10,000	18,000	19,000	14,000	14,000	12,000	6,000	11,000
Health	31,000	31,000	28,000	13,000	20,000	19,000	16,000	12,000	14,000	8,000	11,000
Male	18,000	17,000	16,000	8,000	8,000	9,000	8,000	4,000	8,000	5,000	5,000
Female	26,000	27,000	23,000	9,000	18,000	17,000	14,000	11,000	12,000	6,000	11,000
Science/mathematics teacher education	15,000	9,000	7,000	4,000	3,000	12,000	3,000	11,000	3,000	2,000	3,000
Male	10,000	7,000	5,000	3,000	3,000	7,000	2,000	7,000	2,000	1,000	2,000
Female	12,000	7,000	5,000	3,000	2,000	9,000	2,000	8,000	2,000	1,000	2,000
Technology/technical fields	14,000	13,000	12,000	5,000	2,000	3,000	2,000	2,000	4,000	3,000	3,000
Male	13,000	12,000	11,000	5,000	2,000	3,000	1,000	2,000	4,000	2,000	3,000
Female	5,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000	500
Other S&E-related fields	15,000	14,000	13,000	6,000	3,000	5,000	3,000	4,000	5,000	2,000	4,000
Male	12,000	12,000	11,000	5,000	3,000	3,000	2,000	2,000	5,000	2,000	4,000
Female	8,000	7,000	6,000	3,000	1,000	4,000	2,000	4,000	2,000	1,000	2,000
Non-S&E fields	45,000	37,000	32,000	15,000	15,000	27,000	11,000	23,000	16,000	10,000	14,000
Male	33,000	29,000	24,000	12,000	10,000	18,000	8,000	15,000	13,000	9,000	11,000
Female	31,000	25,000	21,000	8,000	10,000	18,000	6,000	17,000	11,000	5,000	10,000

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Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Arts/humanities	16,000	16,000	12,000	6,000	6,000	7,000	4,000	6,000	4,000	2,000	4,000
Male	12,000	11,000	9,000	4,000	5,000	5,000	4,000	4,000	3,000	2,000	2,000
Female	11,000	10,000	8,000	4,000	3,000	5,000	3,000	5,000	3,000	1,000	3,000
Education, except science/mathematics teacher education	25,000	12,000	10,000	3,000	5,000	21,000	6,000	20,000	6,000	3,000	5,000
Male	16,000	7,000	6,000	2,000	3,000	14,000	5,000	13,000	3,000	2,000	3,000
Female	19,000	10,000	7,000	3,000	5,000	15,000	3,000	15,000	5,000	2,000	5,000
Management/administration	28,000	24,000	22,000	7,000	7,000	8,000	6,000	6,000	8,000	6,000	6,000
Male	21,000	19,000	18,000	6,000	5,000	6,000	4,000	4,000	7,000	6,000	5,000
Female	15,000	13,000	12,000	4,000	6,000	5,000	4,000	3,000	5,000	3,000	4,000
Sales/marketing	10,000	10,000	10,000	3,000	2,000	2,000	2,000	1,000	2,000	2,000	1,000
Male	8,000	8,000	8,000	2,000	1,000	2,000	1,000	1,000	2,000	S	1,000
Female	5,000	5,000	4,000	2,000	2,000	1,000	1,000	S	S	S	S
Social services/related	13,000	11,000	6,000	3,000	8,000	6,000	3,000	5,000	5,000	2,000	5,000
Male	9,000	8,000	5,000	2,000	5,000	4,000	2,000	3,000	3,000	2,000	2,000
Female	9,000	7,000	4,000	3,000	5,000	4,000	2,000	4,000	4,000	500	4,000
Other non-S&E fields	23,000	20,000	17,000	9,000	6,000	8,000	5,000	5,000	12,000	6,000	11,000
Male	17,000	15,000	13,000	8,000	4,000	6,000	5,000	3,000	9,000	5,000	9,000
Female	16,000	12,000	10,000	4,000	4,000	5,000	3,000	4,000	8,000	3,000	7,000
Bachelor's degrees	69,000	61,000	62,000	20,000	26,000	30,000	20,000	24,000	30,000	16,000	24,000
Male	51,000	47,000	48,000	15,000	15,000	17,000	11,000	14,000	22,000	12,000	17,000
Female	45,000	41,000	36,000	13,000	21,000	25,000	15,000	20,000	17,000	9,000	16,000
S&E fields	60,000	54,000	54,000	15,000	16,000	21,000	14,000	17,000	24,000	13,000	19,000
Male	48,000	43,000	44,000	12,000	12,000	13,000	10,000	10,000	20,000	11,000	16,000
Female	35,000	32,000	28,000	9,000	14,000	17,000	8,000	14,000	13,000	7,000	12,000
Sciences	59,000	52,000	50,000	14,000	17,000	21,000	13,000	17,000	23,000	12,000	19,000
Male	44,000	40,000	39,000	12,000	11,000	12,000	10,000	10,000	18,000	10,000	15,000
Female	35,000	31,000	28,000	9,000	14,000	16,000	8,000	14,000	12,000	6,000	11,000
Biological/agricultural/environmental life sciences	26,000	24,000	21,000	7,000	8,000	11,000	8,000	8,000	11,000	7,000	8,000
Male	19,000	18,000	16,000	6,000	5,000	8,000	6,000	5,000	9,000	6,000	6,000
Female	18,000	15,000	13,000	4,000	6,000	8,000	5,000	6,000	6,000	3,000	5,000
Agricultural/food sciences	12,000	10,000	9,000	4,000	2,000	5,000	2,000	4,000	4,000	3,000	3,000
Male	9,000	7,000	7,000	3,000	S	4,000	2,000	4,000	4,000	3,000	2,000
Female	8,000	7,000	6,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000	2,000
Biological sciences	24,000	21,000	18,000	6,000	8,000	10,000	7,000	7,000	8,000	5,000	6,000
Male	17,000	16,000	13,000	5,000	5,000	6,000	5,000	4,000	6,000	4,000	4,000

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		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	16,000	13,000	11,000	4,000	6,000	8,000	5,000	6,000	5,000	2,000	4,000
Environmental life sciences	7,000	6,000	6,000	2,000	1,000	2,000	2,000	1,000	5,000	2,000	4,000
Male	6,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000	4,000	2,000	4,000
Female	4,000	4,000	4,000	S	1,000	1,000	1,000	1,000	2,000	1,000	2,000
Computer/mathematical sciences	21,000	21,000	20,000	4,000	5,000	8,000	4,000	8,000	6,000	4,000	4,000
Male	17,000	16,000	16,000	3,000	2,000	5,000	3,000	5,000	6,000	4,000	4,000
Female	15,000	13,000	11,000	3,000	5,000	6,000	2,000	6,000	3,000	2,000	3,000
Computer/information sciences	16,000	15,000	14,000	3,000	4,000	5,000	3,000	4,000	5,000	3,000	4,000
Male	13,000	12,000	12,000	2,000	2,000	4,000	3,000	3,000	5,000	3,000	3,000
Female	11,000	10,000	8,000	2,000	4,000	3,000	1,000	3,000	3,000	2,000	3,000
Mathematical sciences	15,000	13,000	12,000	3,000	3,000	7,000	2,000	7,000	4,000	3,000	2,000
Male	12,000	11,000	11,000	2,000	1,000	4,000	2,000	4,000	4,000	3,000	2,000
Female	9,000	7,000	7,000	2,000	2,000	6,000	2,000	6,000	1,000	1,000	1,000
Physical/related sciences	14,000	13,000	12,000	4,000	4,000	6,000	4,000	4,000	5,000	3,000	4,000
Male	13,000	12,000	11,000	3,000	3,000	4,000	3,000	3,000	4,000	3,000	3,000
Female	8,000	6,000	6,000	2,000	2,000	4,000	2,000	3,000	3,000	1,000	2,000
Chemistry, except biochemistry	11,000	10,000	8,000	3,000	3,000	4,000	2,000	3,000	3,000	2,000	3,000
Male	9,000	8,000	7,000	3,000	3,000	3,000	2,000	2,000	3,000	1,000	2,000
Female	6,000	5,000	5,000	1,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
Earth/atmospheric/ocean sciences	8,000	6,000	6,000	2,000	1,000	2,000	1,000	2,000	3,000	2,000	3,000
Male	7,000	6,000	6,000	2,000	1,000	2,000	500	2,000	3,000	2,000	2,000
Female	3,000	2,000	2,000	1,000	500	1,000	1,000	1,000	2,000	1,000	2,000
Physics/astronomy	6,000	5,000	4,000	1,000	500	4,000	1,000	3,000	1,000	1,000	S
Male	5,000	5,000	4,000	1,000	500	1,000	1,000	1,000	1,000	1,000	S
Female	3,000	1,000	1,000	S	*	3,000	1,000	3,000	1,000	1,000	S
Other physical sciences	5,000	4,000	3,000	1,000	S	3,000	3,000	1,000	2,000	1,000	2,000
Male	3,000	3,000	2,000	S	S	2,000	S	S	2,000	1,000	2,000
Female	3,000	2,000	2,000	S	S	2,000	1,000	S	1,000	S	1,000
Social/related sciences	45,000	40,000	38,000	11,000	14,000	15,000	8,000	13,000	18,000	10,000	15,000
Male	32,000	29,000	29,000	9,000	9,000	7,000	5,000	6,000	13,000	8,000	12,000
Female	29,000	26,000	22,000	7,000	12,000	13,000	6,000	11,000	11,000	6,000	10,000
Economics	19,000	19,000	18,000	6,000	3,000	3,000	3,000	2,000	4,000	2,000	3,000
Male	18,000	17,000	16,000	5,000	3,000	3,000	3,000	1,000	4,000	2,000	3,000
Female	8,000	8,000	7,000	3,000	2,000	1,000	1,000	1,000	2,000	1,000	1,000
Political/related sciences	21,000	19,000	18,000	6,000	7,000	6,000	4,000	4,000	9,000	5,000	8,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	18,000	17,000	17,000	4,000	5,000	3,000	2,000	2,000	8,000	4,000	7,000
Female	12,000	10,000	9,000	4,000	5,000	5,000	3,000	3,000	4,000	2,000	4,000
Psychology	25,000	20,000	17,000	6,000	8,000	11,000	4,000	9,000	10,000	5,000	9,000
Male	15,000	13,000	11,000	4,000	5,000	4,000	2,000	4,000	6,000	3,000	5,000
Female	21,000	17,000	14,000	4,000	8,000	10,000	4,000	8,000	8,000	3,000	7,000
Sociology/anthropology	20,000	17,000	15,000	5,000	9,000	7,000	4,000	7,000	10,000	5,000	10,000
Male	13,000	12,000	11,000	3,000	4,000	3,000	2,000	2,000	8,000	3,000	7,000
Female	15,000	13,000	9,000	4,000	8,000	7,000	3,000	6,000	7,000	4,000	6,000
Other social sciences	16,000	14,000	13,000	5,000	4,000	6,000	3,000	6,000	5,000	4,000	4,000
Male	11,000	10,000	9,000	4,000	3,000	4,000	2,000	4,000	4,000	4,000	3,000
Female	12,000	10,000	9,000	3,000	3,000	5,000	2,000	5,000	3,000	2,000	3,000
Engineering	25,000	23,000	22,000	6,000	5,000	4,000	3,000	3,000	8,000	6,000	6,000
Male	24,000	23,000	21,000	6,000	5,000	4,000	3,000	3,000	8,000	5,000	5,000
Female	8,000	7,000	7,000	2,000	2,000	2,000	1,000	2,000	3,000	2,000	3,000
Aerospace/related engineering	7,000	6,000	6,000	1,000	1,000	1,000	1,000	S	2,000	1,000	S
Male	6,000	6,000	6,000	1,000	1,000	500	500	S	1,000	1,000	S
Female	2,000	2,000	1,000	S	S	1,000	1,000	S	1,000	1,000	S
Chemical engineering	7,000	6,000	6,000	1,000	1,000	1,000	1,000	1,000	2,000	2,000	1,000
Male	6,000	6,000	6,000	1,000	*	1,000	1,000	S	2,000	2,000	1,000
Female	2,000	2,000	2,000	*	1,000	1,000	500	1,000	1,000	1,000	500
Civil/architectural engineering	11,000	10,000	9,000	3,000	3,000	2,000	1,000	1,000	4,000	2,000	4,000
Male	11,000	9,000	9,000	3,000	3,000	2,000	1,000	1,000	4,000	2,000	4,000
Female	3,000	2,000	2,000	S	S	500	500	S	1,000	500	1,000
Electrical/computer engineering	11,000	11,000	11,000	2,000	2,000	2,000	2,000	1,000	3,000	3,000	3,000
Male	11,000	11,000	10,000	2,000	1,000	2,000	2,000	1,000	3,000	3,000	2,000
Female	5,000	4,000	3,000	2,000	1,000	1,000	*	1,000	2,000	1,000	1,000
Industrial engineering	8,000	8,000	7,000	1,000	2,000	1,000	500	1,000	2,000	1,000	2,000
Male	8,000	8,000	7,000	1,000	2,000	1,000	*	S	1,000	1,000	500
Female	3,000	3,000	3,000	500	*	1,000	*	S	2,000	*	S
Mechanical engineering	13,000	12,000	12,000	4,000	3,000	2,000	1,000	2,000	4,000	3,000	2,000
Male	13,000	12,000	11,000	4,000	2,000	2,000	1,000	1,000	4,000	3,000	2,000
Female	4,000	4,000	4,000	S	1,000	2,000	1,000	1,000	500	500	*
Other engineering	10,000	9,000	9,000	3,000	1,000	2,000	1,000	2,000	3,000	3,000	2,000
Male	10,000	9,000	9,000	3,000	1,000	2,000	1,000	1,000	3,000	2,000	2,000
Female	3,000	2,000	2,000	S	S	1,000	1,000	S	2,000	2,000	1,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Educational institution									
		Business/industry				4-year college/university			Government		
		Total	Profit	Self-employed	Nonprofit	Total	Other	Total	Federal	State/local	
S&E-related fields	36,000	33,000	30,000	11,000	17,000	19,000	13,000	14,000	13,000	7,000	11,000
Male	21,000	20,000	18,000	7,000	7,000	7,000	5,000	6,000	8,000	5,000	6,000
Female	28,000	26,000	22,000	7,000	15,000	17,000	12,000	12,000	10,000	5,000	9,000
Health	29,000	28,000	24,000	7,000	16,000	15,000	12,000	9,000	12,000	6,000	10,000
Male	12,000	12,000	11,000	2,000	6,000	5,000	4,000	3,000	6,000	4,000	4,000
Female	25,000	25,000	21,000	7,000	15,000	14,000	12,000	9,000	10,000	5,000	9,000
Science/mathematics teacher education	13,000	8,000	7,000	3,000	3,000	9,000	S	9,000	2,000	2,000	2,000
Male	8,000	6,000	5,000	2,000	3,000	5,000	S	5,000	2,000	1,000	2,000
Female	9,000	6,000	4,000	3,000	1,000	7,000	S	7,000	1,000	1,000	500
Technology/technical fields	13,000	12,000	11,000	5,000	2,000	3,000	2,000	2,000	4,000	2,000	3,000
Male	12,000	12,000	10,000	5,000	2,000	2,000	1,000	2,000	3,000	2,000	3,000
Female	5,000	4,000	4,000	1,000	1,000	1,000	S	1,000	1,000	1,000	500
Other S&E-related fields	13,000	12,000	11,000	6,000	2,000	4,000	2,000	3,000	4,000	2,000	4,000
Male	11,000	10,000	9,000	5,000	1,000	2,000	1,000	1,000	4,000	2,000	3,000
Female	6,000	6,000	5,000	2,000	S	3,000	S	S	1,000	1,000	1,000
Non-S&E degrees	29,000	25,000	21,000	8,000	10,000	12,000	5,000	11,000	9,000	5,000	8,000
Male	20,000	17,000	15,000	5,000	7,000	9,000	4,000	8,000	7,000	4,000	5,000
Female	21,000	17,000	15,000	5,000	6,000	10,000	4,000	9,000	7,000	3,000	6,000
Arts/humanities	15,000	13,000	11,000	4,000	5,000	5,000	3,000	4,000	4,000	2,000	3,000
Male	10,000	9,000	8,000	2,000	5,000	3,000	2,000	3,000	3,000	1,000	2,000
Female	10,000	9,000	8,000	4,000	2,000	4,000	2,000	3,000	2,000	1,000	2,000
Education, except science/mathematics teacher education	11,000	8,000	7,000	2,000	3,000	8,000	2,000	8,000	4,000	2,000	4,000
Male	8,000	4,000	4,000	S	2,000	6,000	S	6,000	1,000	1,000	1,000
Female	10,000	7,000	6,000	2,000	2,000	7,000	2,000	7,000	4,000	2,000	4,000
Management/administration	18,000	17,000	15,000	5,000	6,000	5,000	3,000	5,000	6,000	3,000	4,000
Male	14,000	13,000	12,000	4,000	4,000	5,000	3,000	3,000	5,000	3,000	3,000
Female	11,000	10,000	8,000	2,000	4,000	3,000	2,000	3,000	3,000	1,000	3,000
Sales/marketing	5,000	5,000	4,000	S	S	1,000	1,000	1,000	2,000	S	S
Male	4,000	3,000	3,000	S	S	1,000	S	1,000	S	S	S
Female	4,000	4,000	3,000	S	S	S	S	S	S	S	S
Social services/related	5,000	4,000	4,000	1,000	2,000	1,000	1,000	S	2,000	S	1,000
Male	4,000	3,000	3,000	S	1,000	1,000	S	S	1,000	S	500
Female	3,000	3,000	2,000	S	2,000	S	S	S	1,000	S	1,000
Other non-S&E fields	11,000	9,000	8,000	2,000	4,000	5,000	3,000	4,000	4,000	2,000	3,000
Male	7,000	6,000	5,000	2,000	2,000	2,000	1,000	2,000	3,000	1,000	3,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	8,000	6,000	6,000	1,000	3,000	4,000	2,000	3,000	3,000	1,000	2,000
Master's degrees	47,000	38,000	33,000	12,000	16,000	26,000	13,000	22,000	19,000	11,000	15,000
Male	33,000	28,000	27,000	10,000	8,000	14,000	9,000	12,000	13,000	8,000	10,000
Female	32,000	24,000	19,000	8,000	13,000	21,000	10,000	18,000	13,000	7,000	11,000
S&E fields	28,000	23,000	20,000	8,000	8,000	13,000	8,000	10,000	12,000	8,000	8,000
Male	22,000	18,000	17,000	6,000	4,000	9,000	6,000	6,000	8,000	6,000	6,000
Female	17,000	13,000	10,000	5,000	6,000	10,000	6,000	8,000	8,000	5,000	6,000
Sciences	25,000	20,000	17,000	8,000	8,000	12,000	8,000	9,000	11,000	7,000	7,000
Male	18,000	15,000	14,000	6,000	4,000	8,000	5,000	6,000	7,000	5,000	5,000
Female	16,000	12,000	10,000	5,000	6,000	9,000	6,000	7,000	7,000	5,000	5,000
Biological/agricultural/environmental life sciences	9,000	8,000	6,000	3,000	3,000	5,000	4,000	3,000	4,000	2,000	3,000
Male	7,000	5,000	4,000	2,000	1,000	4,000	3,000	2,000	3,000	2,000	2,000
Female	6,000	5,000	4,000	1,000	3,000	3,000	2,000	2,000	3,000	1,000	2,000
Agricultural/food sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000	1,000	1,000	500
Male	3,000	2,000	2,000	1,000	S	2,000	1,000	500	1,000	500	500
Female	3,000	3,000	3,000	S	1,000	1,000	1,000	500	1,000	1,000	S
Biological sciences	7,000	6,000	4,000	2,000	3,000	4,000	3,000	2,000	3,000	1,000	3,000
Male	5,000	4,000	3,000	2,000	1,000	3,000	3,000	2,000	2,000	1,000	2,000
Female	5,000	4,000	3,000	1,000	2,000	3,000	2,000	2,000	3,000	1,000	2,000
Environmental life sciences	4,000	3,000	3,000	S	1,000	1,000	1,000	1,000	2,000	2,000	1,000
Male	3,000	3,000	2,000	S	S	1,000	1,000	S	2,000	1,000	1,000
Female	2,000	2,000	1,000	S	1,000	1,000	500	S	1,000	1,000	S
Computer/mathematical sciences	11,000	10,000	9,000	3,000	1,000	5,000	4,000	3,000	4,000	3,000	2,000
Male	9,000	8,000	8,000	2,000	1,000	3,000	2,000	2,000	3,000	3,000	2,000
Female	7,000	6,000	5,000	2,000	1,000	4,000	3,000	2,000	2,000	1,000	1,000
Computer/information sciences	10,000	9,000	9,000	2,000	1,000	4,000	3,000	2,000	3,000	3,000	2,000
Male	9,000	8,000	7,000	2,000	1,000	2,000	2,000	2,000	3,000	3,000	1,000
Female	6,000	5,000	5,000	1,000	1,000	3,000	3,000	2,000	1,000	1,000	1,000
Mathematical sciences	5,000	5,000	4,000	2,000	1,000	3,000	2,000	2,000	1,000	1,000	1,000
Male	4,000	4,000	3,000	1,000	500	2,000	2,000	2,000	1,000	1,000	1,000
Female	4,000	3,000	2,000	1,000	500	2,000	1,000	1,000	1,000	1,000	500
Physical/related sciences	7,000	6,000	5,000	2,000	1,000	3,000	2,000	3,000	2,000	2,000	1,000
Male	6,000	5,000	4,000	2,000	500	3,000	1,000	3,000	2,000	1,000	1,000
Female	3,000	3,000	2,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000
Chemistry, except biochemistry	4,000	4,000	4,000	500	500	2,000	1,000	2,000	1,000	1,000	1,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	3,000	3,000	3,000	S	S	2,000	500	2,000	1,000	500	500
Female	2,000	2,000	2,000	S	S	1,000	1,000	1,000	1,000	500	500
Earth/atmospheric/ocean sciences	4,000	3,000	2,000	2,000	1,000	2,000	1,000	2,000	2,000	1,000	1,000
Male	4,000	3,000	2,000	2,000	S	2,000	1,000	2,000	2,000	1,000	1,000
Female	2,000	1,000	1,000	S	1,000	1,000	1,000	1,000	1,000	500	1,000
Physics/astronomy	3,000	3,000	2,000	1,000	500	2,000	1,000	1,000	500	500	S
Male	3,000	3,000	2,000	S	500	2,000	1,000	1,000	500	500	S
Female	1,000	1,000	500	S	S	500	500	*	S	S	S
Other physical sciences	1,000	1,000	1,000	S	S	500	S	500	1,000	S	S
Male	1,000	1,000	1,000	S	S	500	S	S	S	S	S
Female	1,000	S	S	S	S	S	S	S	S	S	S
Social/related sciences	19,000	15,000	12,000	6,000	7,000	9,000	6,000	8,000	8,000	6,000	6,000
Male	13,000	11,000	9,000	4,000	4,000	5,000	3,000	4,000	5,000	4,000	4,000
Female	13,000	10,000	7,000	4,000	5,000	7,000	4,000	6,000	6,000	4,000	4,000
Economics	6,000	6,000	5,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000
Male	6,000	5,000	5,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000
Female	3,000	3,000	2,000	S	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Political/related sciences	8,000	6,000	5,000	2,000	2,000	2,000	2,000	1,000	5,000	4,000	2,000
Male	6,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000	4,000	3,000	2,000
Female	5,000	4,000	4,000	1,000	1,000	2,000	2,000	500	2,000	2,000	1,000
Psychology	14,000	10,000	8,000	5,000	5,000	8,000	3,000	7,000	6,000	3,000	5,000
Male	8,000	7,000	6,000	3,000	3,000	4,000	1,000	3,000	3,000	1,000	3,000
Female	10,000	7,000	5,000	4,000	4,000	7,000	3,000	6,000	5,000	3,000	4,000
Sociology/anthropology	5,000	4,000	3,000	1,000	1,000	3,000	3,000	2,000	2,000	1,000	2,000
Male	3,000	2,000	2,000	S	1,000	2,000	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	2,000	1,000	1,000
Other social sciences	6,000	5,000	3,000	2,000	3,000	4,000	3,000	2,000	3,000	2,000	2,000
Male	4,000	3,000	2,000	2,000	1,000	2,000	2,000	1,000	2,000	2,000	1,000
Female	5,000	4,000	1,000	1,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000
Engineering	12,000	11,000	10,000	3,000	1,000	3,000	2,000	2,000	4,000	3,000	3,000
Male	12,000	10,000	10,000	2,000	1,000	3,000	2,000	1,000	4,000	3,000	3,000
Female	4,000	3,000	3,000	2,000	500	1,000	1,000	1,000	2,000	1,000	2,000
Aerospace/related engineering	2,000	2,000	1,000	S	S	500	500	S	1,000	1,000	S
Male	2,000	2,000	1,000	S	S	500	500	S	1,000	1,000	S
Female	500	500	500	S	S	*	*	S	S	S	S

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Chemical engineering	3,000	3,000	3,000	S	S	1,000	500	S	1,000	500	1,000
Male	3,000	3,000	3,000	S	S	500	500	S	500	*	S
Female	1,000	1,000	1,000	S	S	1,000	*	S	1,000	S	S
Civil/architectural engineering	5,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000	2,000	1,000	2,000
Male	5,000	4,000	4,000	1,000	S	1,000	1,000	S	2,000	1,000	2,000
Female	2,000	1,000	1,000	S	S	1,000	500	S	1,000	500	1,000
Electrical/computer engineering	6,000	6,000	6,000	2,000	1,000	2,000	2,000	500	1,000	1,000	1,000
Male	6,000	6,000	6,000	2,000	1,000	2,000	2,000	500	1,000	1,000	1,000
Female	2,000	2,000	2,000	1,000	500	500	500	S	500	500	S
Industrial engineering	2,000	2,000	2,000	S	S	1,000	500	1,000	1,000	1,000	1,000
Male	2,000	2,000	2,000	S	S	1,000	500	S	1,000	1,000	S
Female	1,000	1,000	1,000	S	S	*	*	S	S	S	S
Mechanical engineering	5,000	5,000	5,000	500	500	1,000	1,000	500	1,000	2,000	1,000
Male	5,000	4,000	5,000	500	500	1,000	1,000	S	1,000	2,000	1,000
Female	1,000	1,000	1,000	S	S	500	*	S	S	S	S
Other engineering	5,000	5,000	5,000	2,000	500	1,000	1,000	1,000	2,000	1,000	1,000
Male	5,000	5,000	4,000	1,000	500	1,000	1,000	1,000	2,000	1,000	1,000
Female	2,000	1,000	1,000	S	S	1,000	1,000	1,000	1,000	500	1,000
S&E-related fields	20,000	18,000	14,000	6,000	9,000	12,000	7,000	10,000	8,000	4,000	7,000
Male	12,000	10,000	9,000	4,000	4,000	7,000	3,000	6,000	5,000	3,000	4,000
Female	17,000	14,000	11,000	5,000	8,000	11,000	6,000	9,000	6,000	3,000	6,000
Health	16,000	15,000	11,000	6,000	9,000	10,000	6,000	7,000	7,000	4,000	6,000
Male	8,000	7,000	6,000	2,000	3,000	3,000	2,000	2,000	4,000	2,000	3,000
Female	15,000	13,000	10,000	5,000	8,000	9,000	6,000	7,000	6,000	3,000	5,000
Science/mathematics teacher education	8,000	4,000	3,000	2,000	1,000	7,000	2,000	7,000	2,000	S	2,000
Male	6,000	3,000	2,000	2,000	S	5,000	1,000	5,000	1,000	S	S
Female	7,000	3,000	2,000	S	1,000	6,000	2,000	6,000	2,000	S	2,000
Technology/technical fields	4,000	4,000	4,000	S	S	1,000	500	1,000	2,000	1,000	1,000
Male	3,000	3,000	3,000	S	S	1,000	500	1,000	1,000	1,000	1,000
Female	2,000	2,000	2,000	S	S	S	S	S	S	S	S
Other S&E-related fields	7,000	7,000	6,000	2,000	3,000	2,000	2,000	2,000	3,000	500	3,000
Male	6,000	6,000	6,000	2,000	S	2,000	1,000	S	2,000	S	2,000
Female	3,000	3,000	2,000	1,000	1,000	2,000	1,000	S	2,000	S	2,000
Non-S&E fields	34,000	25,000	23,000	8,000	9,000	21,000	8,000	19,000	11,000	7,000	10,000
Male	26,000	21,000	20,000	7,000	6,000	13,000	6,000	11,000	9,000	6,000	7,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	21,000	14,000	12,000	5,000	7,000	15,000	5,000	14,000	8,000	3,000	8,000
Arts/humanities	9,000	7,000	5,000	4,000	1,000	5,000	3,000	4,000	2,000	1,000	2,000
Male	7,000	5,000	3,000	4,000	S	4,000	3,000	3,000	1,000	S	S
Female	5,000	4,000	3,000	2,000	S	3,000	1,000	3,000	2,000	S	2,000
Education, except science/mathematics teacher education	21,000	9,000	7,000	3,000	4,000	18,000	4,000	17,000	4,000	2,000	3,000
Male	12,000	6,000	5,000	2,000	2,000	10,000	3,000	10,000	3,000	2,000	2,000
Female	16,000	7,000	4,000	2,000	4,000	14,000	3,000	14,000	3,000	1,000	2,000
Management/administration	20,000	18,000	18,000	5,000	5,000	5,000	5,000	4,000	7,000	6,000	4,000
Male	17,000	16,000	16,000	5,000	3,000	4,000	3,000	3,000	6,000	5,000	4,000
Female	11,000	10,000	9,000	3,000	4,000	4,000	3,000	2,000	3,000	2,000	2,000
Sales/marketing	8,000	8,000	8,000	2,000	1,000	2,000	1,000	1,000	1,000	S	1,000
Male	7,000	7,000	7,000	2,000	1,000	1,000	S	S	1,000	S	1,000
Female	3,000	3,000	3,000	1,000	S	1,000	S	S	S	S	S
Social services/related	11,000	9,000	5,000	3,000	7,000	5,000	2,000	4,000	5,000	1,000	5,000
Male	7,000	6,000	4,000	2,000	5,000	3,000	1,000	2,000	2,000	1,000	2,000
Female	9,000	7,000	4,000	2,000	5,000	4,000	1,000	4,000	4,000	S	4,000
Other non-S&E fields	12,000	8,000	7,000	2,000	3,000	5,000	4,000	3,000	7,000	4,000	7,000
Male	10,000	6,000	5,000	2,000	2,000	5,000	4,000	2,000	5,000	3,000	5,000
Female	8,000	5,000	4,000	1,000	2,000	3,000	2,000	3,000	5,000	2,000	5,000
Doctorate degrees	11,000	7,000	6,000	2,000	3,000	9,000	7,000	5,000	3,000	2,000	2,000
Male	8,000	6,000	5,000	2,000	2,000	6,000	5,000	4,000	2,000	2,000	1,000
Female	6,000	4,000	3,000	1,000	2,000	5,000	4,000	3,000	2,000	1,000	2,000
S&E fields	5,000	4,000	4,000	1,000	1,000	4,000	4,000	1,000	2,000	2,000	1,000
Male	4,000	3,000	3,000	1,000	1,000	3,000	3,000	1,000	1,000	1,000	1,000
Female	3,000	2,000	1,000	1,000	1,000	3,000	3,000	1,000	1,000	1,000	500
Sciences	5,000	3,000	3,000	1,000	1,000	4,000	4,000	1,000	2,000	2,000	1,000
Male	4,000	3,000	3,000	1,000	1,000	3,000	3,000	1,000	1,000	1,000	1,000
Female	3,000	2,000	1,000	1,000	1,000	3,000	3,000	1,000	1,000	1,000	500
Biological/agricultural/environmental life sciences	3,000	2,000	2,000	1,000	1,000	2,000	2,000	1,000	1,000	1,000	500
Male	2,000	2,000	1,000	1,000	1,000	2,000	2,000	500	1,000	1,000	500
Female	2,000	1,000	1,000	500	1,000	1,000	1,000	500	1,000	1,000	500
Agricultural/food sciences	1,000	1,000	1,000	500	500	1,000	1,000	*	500	500	*
Male	1,000	1,000	1,000	500	500	500	500	*	500	500	*
Female	500	500	500	*	S	500	500	*	*	*	*
Biological sciences	3,000	2,000	1,000	1,000	1,000	2,000	2,000	500	1,000	1,000	500

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Educational institution									
		Business/industry				4-year college/university			Government		
		Total	Profit	Self-employed	Nonprofit	Total	Other	Total	Federal	State/local	
Male	2,000	1,000	1,000	1,000	1,000	2,000	2,000	500	1,000	1,000	500
Female	2,000	1,000	1,000	500	1,000	1,000	1,000	500	1,000	1,000	500
Environmental life sciences	500	500	500	*	*	500	500	*	500	500	*
Male	500	500	500	*	*	500	500	*	500	500	*
Female	500	*	*	S	*	500	500	S	*	*	S
Computer/mathematical sciences	2,000	1,000	1,000	500	500	2,000	2,000	500	500	500	500
Male	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	*
Female	2,000	500	500	*	*	2,000	2,000	*	500	*	*
Computer/information sciences	1,000	1,000	1,000	*	*	1,000	1,000	*	500	*	*
Male	1,000	1,000	1,000	*	*	1,000	1,000	*	*	*	S
Female	500	500	500	S	*	500	500	*	*	S	S
Mathematical sciences	2,000	1,000	1,000	500	500	2,000	2,000	500	500	500	*
Male	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	*
Female	2,000	500	500	*	*	2,000	2,000	*	*	*	S
Physical/related sciences	2,000	2,000	2,000	1,000	500	1,000	1,000	500	1,000	1,000	500
Male	2,000	2,000	2,000	1,000	500	1,000	1,000	500	1,000	1,000	500
Female	1,000	1,000	1,000	500	500	1,000	500	500	500	500	*
Chemistry, except biochemistry	2,000	1,000	1,000	500	500	1,000	1,000	500	1,000	500	500
Male	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	500
Female	1,000	500	500	*	*	500	500	500	500	500	*
Earth/atmospheric/ocean sciences	1,000	500	500	500	500	1,000	1,000	500	500	500	500
Male	1,000	500	500	500	*	1,000	1,000	*	500	500	500
Female	500	500	500	S	S	500	500	*	*	*	S
Physics/astronomy	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	500
Male	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	*
Female	500	500	500	S	*	500	500	*	500	*	S
Other physical sciences	1,000	1,000	1,000	*	*	1,000	1,000	S	*	*	S
Male	1,000	1,000	1,000	*	S	1,000	1,000	S	*	*	S
Female	500	*	S	S	S	*	*	S	*	*	S
Social/related sciences	2,000	2,000	1,000	1,000	1,000	2,000	2,000	1,000	1,000	1,000	500
Male	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	1,000	500	500
Female	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500
Economics	1,000	500	500	500	500	1,000	1,000	*	500	500	500
Male	1,000	500	500	500	500	1,000	1,000	*	500	500	*
Female	500	500	500	S	*	500	500	S	500	500	*

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Educational institution									
		Business/industry				4-year college/university			Government		
		Total	Profit	Self-employed	Nonprofit	Total	Other	Total	Federal	State/local	
Political/related sciences	1,000	1,000	500	500	500	1,000	1,000	500	500	500	500
Male	1,000	1,000	500	500	500	1,000	500	500	500	500	500
Female	500	500	500	*	*	500	500	*	*	*	*
Psychology	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500
Male	1,000	1,000	500	500	500	1,000	1,000	500	500	500	500
Female	1,000	1,000	1,000	1,000	500	1,000	1,000	500	500	500	500
Sociology/anthropology	1,000	1,000	500	500	1,000	1,000	1,000	500	500	500	500
Male	500	500	500	*	500	500	500	500	500	500	500
Female	1,000	1,000	500	*	1,000	1,000	1,000	500	500	500	*
Other social sciences	1,000	500	500	500	500	1,000	1,000	500	500	500	500
Male	1,000	500	500	*	*	1,000	1,000	500	500	*	*
Female	500	500	500	*	*	500	500	500	*	*	*
Engineering	2,000	2,000	2,000	1,000	500	1,000	1,000	500	1,000	1,000	500
Male	2,000	2,000	2,000	1,000	500	1,000	1,000	500	1,000	500	500
Female	500	500	500	*	*	500	500	*	500	500	*
Aerospace/related engineering	1,000	1,000	1,000	*	*	500	500	S	500	500	S
Male	1,000	1,000	1,000	*	*	500	500	S	500	500	S
Female	*	S	S	S	S	*	*	S	S	S	S
Chemical engineering	1,000	1,000	1,000	500	500	500	500	*	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	*	500	500	500
Female	500	500	500	S	S	*	*	S	*	*	S
Civil/architectural engineering	1,000	1,000	1,000	*	*	500	500	S	500	500	*
Male	1,000	1,000	1,000	*	*	500	500	S	500	500	*
Female	500	*	*	S	S	*	*	S	*	S	S
Electrical/computer engineering	1,000	1,000	1,000	500	500	1,000	1,000	*	500	500	*
Male	1,000	1,000	1,000	500	500	1,000	1,000	*	500	500	*
Female	500	500	500	S	S	500	500	*	*	*	S
Industrial engineering	500	500	500	S	S	500	500	S	*	*	S
Male	500	500	500	S	S	500	500	S	S	S	S
Female	500	*	*	S	S	500	500	S	*	*	S
Mechanical engineering	1,000	500	500	500	*	500	500	*	500	500	S
Male	1,000	500	500	500	*	500	500	*	500	500	S
Female	500	*	*	S	S	*	*	S	S	S	S
Other engineering	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	*	500	500	500

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	500	500	500	S	*	500	500	S	*	*	S
S&E-related fields	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000	2,000	500	1,000
Male	4,000	3,000	3,000	500	1,000	2,000	2,000	500	500	500	500
Female	3,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000	500	1,000
Health	3,000	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	500	1,000
Male	1,000	1,000	1,000	500	1,000	1,000	1,000	*	500	500	500
Female	2,000	1,000	1,000	500	1,000	1,000	1,000	*	1,000	500	1,000
Science/mathematics teacher education	2,000	S	S	S	S	2,000	2,000	1,000	S	S	S
Male	2,000	S	S	S	S	2,000	2,000	S	S	S	S
Female	1,000	S	S	S	S	1,000	1,000	1,000	S	S	S
Technology/technical fields	1,000	1,000	1,000	S	S	S	S	S	S	S	S
Male	1,000	1,000	1,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Other S&E-related fields	3,000	3,000	S	S	S	1,000	1,000	S	S	S	S
Male	3,000	S	S	S	S	500	500	S	S	S	S
Female	1,000	S	S	S	S	S	S	S	S	S	S
Non-S&E fields	8,000	4,000	3,000	1,000	3,000	7,000	5,000	4,000	2,000	1,000	1,000
Male	6,000	3,000	2,000	1,000	2,000	5,000	4,000	3,000	1,000	1,000	1,000
Female	4,000	3,000	2,000	1,000	2,000	3,000	2,000	3,000	1,000	S	1,000
Arts/humanities	2,000	1,000	1,000	S	S	2,000	2,000	1,000	S	S	S
Male	2,000	1,000	500	S	S	1,000	1,000	1,000	S	S	S
Female	1,000	1,000	S	S	S	1,000	1,000	500	S	S	S
Education, except science/mathematics teacher education	6,000	2,000	1,000	1,000	2,000	6,000	4,000	4,000	1,000	S	1,000
Male	5,000	2,000	S	S	1,000	5,000	4,000	3,000	S	S	S
Female	3,000	1,000	1,000	1,000	1,000	3,000	2,000	3,000	S	S	S
Management/administration	2,000	2,000	1,000	S	S	1,000	1,000	S	S	S	S
Male	2,000	2,000	1,000	S	S	1,000	1,000	S	S	S	S
Female	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Sales/marketing	500	S	S	S	S	500	500	S	S	S	S
Male	500	S	S	S	S	500	500	S	S	S	S
Female	500	S	S	S	S	500	500	S	S	S	S
Social services/related	3,000	2,000	1,000	S	2,000	2,000	1,000	1,000	S	S	S
Male	3,000	2,000	S	S	2,000	2,000	1,000	S	S	S	S
Female	1,000	1,000	S	S	S	1,000	1,000	S	S	S	S

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self- employed	Nonprofit	Total	4-year college/ university	Other	Total	Federal	State/ local
Other non-S&E fields	3,000	3,000	2,000	S	2,000	1,000	1,000	1,000	1,000	S	1,000
Male	2,000	2,000	2,000	S	S	1,000	1,000	S	1,000	S	S
Female	2,000	2,000	1,000	S	S	1,000	1,000	S	S	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.

^a 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. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. 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.