

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and fields ^a	82,000	50,000	40,000	74,000	40,000	54,000
Business/industry	74,000	43,000	22,000	63,000	33,000	51,000
4-year college/university	26,000	15,000	14,000	17,000	8,000	18,000
Other educational institution	33,000	13,000	30,000	20,000	11,000	16,000
Government	34,000	17,000	12,000	28,000	15,000	22,000
S&E fields	67,000	36,000	23,000	60,000	27,000	41,000
Business/industry	59,000	29,000	14,000	53,000	24,000	35,000
4-year college/university	17,000	10,000	7,000	12,000	7,000	9,000
Other educational institution	20,000	8,000	18,000	12,000	6,000	10,000
Government	26,000	13,000	7,000	22,000	11,000	16,000
Sciences	64,000	32,000	22,000	57,000	26,000	39,000
Business/industry	55,000	26,000	13,000	49,000	23,000	34,000
4-year college/university	16,000	10,000	6,000	12,000	6,000	9,000
Other educational institution	20,000	8,000	17,000	12,000	6,000	9,000
Government	24,000	12,000	7,000	21,000	10,000	15,000
Biological/agricultural/environmental life sciences	27,000	14,000	12,000	22,000	10,000	18,000
Business/industry	25,000	11,000	6,000	20,000	8,000	16,000
4-year college/university	9,000	7,000	4,000	7,000	3,000	5,000
Other educational institution	9,000	3,000	8,000	5,000	2,000	5,000
Government	11,000	6,000	3,000	8,000	4,000	7,000
Agricultural/food sciences	12,000	5,000	5,000	11,000	3,000	8,000
Business/industry	10,000	4,000	2,000	10,000	2,000	7,000
4-year college/university	3,000	2,000	1,000	2,000	1,000	2,000
Other educational institution	4,000	1,000	4,000	2,000	S	3,000
Government	5,000	2,000	1,000	4,000	2,000	3,000
Biological sciences	25,000	12,000	11,000	18,000	9,000	16,000
Business/industry	21,000	10,000	6,000	16,000	8,000	14,000
4-year college/university	8,000	6,000	4,000	6,000	3,000	5,000
Other educational institution	8,000	2,000	7,000	5,000	2,000	4,000
Government	9,000	4,000	3,000	6,000	3,000	6,000
Environmental life sciences	9,000	4,000	2,000	8,000	3,000	5,000
Business/industry	7,000	4,000	1,000	7,000	2,000	5,000
4-year college/university	2,000	1,000	1,000	2,000	1,000	1,000
Other educational institution	1,000	1,000	1,000	1,000	S	S
Government	5,000	3,000	1,000	4,000	2,000	3,000
Computer/mathematical sciences	24,000	13,000	9,000	21,000	15,000	11,000
Business/industry	23,000	12,000	3,000	20,000	15,000	9,000
4-year college/university	6,000	4,000	3,000	4,000	4,000	2,000
Other educational institution	8,000	4,000	7,000	6,000	3,000	2,000
Government	7,000	4,000	1,000	6,000	5,000	4,000
Computer/information sciences	18,000	12,000	4,000	15,000	14,000	7,000
Business/industry	17,000	10,000	2,000	14,000	13,000	6,000
4-year college/university	5,000	3,000	1,000	3,000	3,000	1,000
Other educational institution	5,000	3,000	3,000	3,000	3,000	1,000
Government	6,000	3,000	1,000	5,000	5,000	3,000
Mathematical sciences	16,000	8,000	8,000	13,000	7,000	7,000
Business/industry	14,000	7,000	3,000	12,000	7,000	7,000
4-year college/university	4,000	3,000	3,000	3,000	2,000	1,000
Other educational institution	7,000	3,000	7,000	5,000	1,000	2,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	4,000	3,000	1,000	3,000	2,000	2,000
Physical/related sciences	16,000	10,000	6,000	12,000	7,000	9,000
Business/industry	14,000	9,000	3,000	11,000	5,000	8,000
4-year college/university	5,000	3,000	2,000	3,000	2,000	2,000
Other educational institution	5,000	2,000	5,000	3,000	3,000	2,000
Government	5,000	3,000	1,000	4,000	2,000	3,000
Chemistry, except biochemistry	12,000	7,000	4,000	10,000	3,000	7,000
Business/industry	11,000	6,000	3,000	9,000	3,000	6,000
4-year college/university	3,000	2,000	2,000	2,000	1,000	2,000
Other educational institution	4,000	2,000	3,000	2,000	1,000	1,000
Government	3,000	2,000	1,000	3,000	1,000	2,000
Earth/atmospheric/ocean sciences	9,000	5,000	3,000	7,000	4,000	5,000
Business/industry	7,000	4,000	1,000	6,000	3,000	4,000
4-year college/university	2,000	1,000	1,000	1,000	500	1,000
Other educational institution	3,000	500	2,000	2,000	500	2,000
Government	4,000	2,000	500	3,000	2,000	2,000
Physics/astronomy	6,000	4,000	3,000	5,000	4,000	3,000
Business/industry	5,000	4,000	500	4,000	3,000	3,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	3,000	1,000	3,000	1,000	3,000	1,000
Government	1,000	1,000	S	1,000	500	1,000
Other physical sciences	5,000	3,000	2,000	5,000	2,000	3,000
Business/industry	4,000	2,000	1,000	3,000	1,000	2,000
4-year college/university	3,000	1,000	*	2,000	S	S
Other educational institution	1,000	S	1,000	1,000	S	S
Government	2,000	1,000	1,000	2,000	1,000	1,000
Social/related sciences	50,000	20,000	18,000	47,000	17,000	31,000
Business/industry	43,000	17,000	10,000	40,000	15,000	26,000
4-year college/university	11,000	5,000	4,000	8,000	3,000	6,000
Other educational institution	15,000	6,000	14,000	9,000	4,000	8,000
Government	18,000	9,000	6,000	16,000	6,000	13,000
Economics	20,000	6,000	4,000	19,000	7,000	10,000
Business/industry	20,000	6,000	2,000	18,000	6,000	9,000
4-year college/university	3,000	1,000	1,000	3,000	1,000	2,000
Other educational institution	2,000	1,000	2,000	2,000	500	500
Government	4,000	2,000	2,000	3,000	1,000	3,000
Political/related sciences	23,000	8,000	7,000	21,000	8,000	14,000
Business/industry	20,000	7,000	5,000	18,000	7,000	12,000
4-year college/university	4,000	1,000	2,000	4,000	1,000	2,000
Other educational institution	4,000	1,000	4,000	3,000	1,000	2,000
Government	10,000	5,000	2,000	9,000	3,000	6,000
Psychology	28,000	11,000	12,000	25,000	10,000	16,000
Business/industry	21,000	9,000	6,000	20,000	9,000	13,000
4-year college/university	6,000	3,000	2,000	4,000	2,000	4,000
Other educational institution	12,000	4,000	10,000	7,000	3,000	7,000
Government	12,000	4,000	4,000	10,000	3,000	8,000
Sociology/anthropology	20,000	8,000	9,000	19,000	7,000	15,000
Business/industry	17,000	6,000	5,000	16,000	6,000	11,000
4-year college/university	5,000	2,000	3,000	3,000	1,000	3,000

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Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	7,000	3,000	6,000	3,000	2,000	3,000
Government	10,000	4,000	4,000	9,000	4,000	7,000
Other social sciences	17,000	8,000	7,000	15,000	4,000	9,000
Business/industry	15,000	7,000	2,000	14,000	3,000	7,000
4-year college/university	4,000	2,000	2,000	3,000	1,000	3,000
Other educational institution	6,000	2,000	6,000	5,000	1,000	2,000
Government	6,000	3,000	2,000	4,000	2,000	4,000
Engineering	28,000	15,000	6,000	25,000	12,000	14,000
Business/industry	26,000	15,000	4,000	23,000	11,000	14,000
4-year college/university	4,000	3,000	2,000	2,000	2,000	2,000
Other educational institution	4,000	2,000	3,000	2,000	1,000	2,000
Government	8,000	6,000	2,000	7,000	4,000	4,000
Aerospace/related engineering	7,000	4,000	2,000	6,000	2,000	3,000
Business/industry	7,000	4,000	1,000	6,000	2,000	3,000
4-year college/university	1,000	500	500	1,000	1,000	*
Other educational institution	*	S	*	S	S	S
Government	2,000	1,000	S	1,000	1,000	1,000
Chemical engineering	7,000	3,000	1,000	6,000	2,000	3,000
Business/industry	7,000	3,000	500	6,000	2,000	3,000
4-year college/university	1,000	1,000	500	500	500	1,000
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Civil/architectural engineering	12,000	6,000	2,000	10,000	4,000	5,000
Business/industry	10,000	5,000	1,000	10,000	3,000	5,000
4-year college/university	1,000	1,000	1,000	1,000	1,000	500
Other educational institution	2,000	1,000	1,000	1,000	S	S
Government	5,000	3,000	500	4,000	2,000	2,000
Electrical/computer engineering	13,000	8,000	3,000	11,000	8,000	6,000
Business/industry	13,000	8,000	3,000	10,000	8,000	6,000
4-year college/university	2,000	2,000	2,000	1,000	1,000	1,000
Other educational institution	1,000	1,000	1,000	1,000	1,000	S
Government	4,000	2,000	1,000	3,000	2,000	2,000
Industrial engineering	9,000	4,000	1,000	7,000	3,000	4,000
Business/industry	8,000	3,000	1,000	7,000	3,000	4,000
4-year college/university	500	500	500	500	*	*
Other educational institution	1,000	S	1,000	1,000	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Mechanical engineering	15,000	7,000	3,000	13,000	3,000	7,000
Business/industry	14,000	7,000	1,000	12,000	3,000	6,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	S	1,000
Government	4,000	2,000	S	3,000	1,000	2,000
Other engineering	12,000	6,000	3,000	10,000	5,000	6,000
Business/industry	10,000	5,000	3,000	9,000	5,000	6,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	1,000	1,000	1,000	*	1,000
Government	4,000	2,000	*	3,000	2,000	2,000
S&E-related fields	39,000	22,000	26,000	38,000	14,000	30,000
Business/industry	36,000	18,000	17,000	34,000	11,000	29,000

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Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	17,000	8,000	11,000	10,000	3,000	14,000
Other educational institution	17,000	6,000	16,000	10,000	4,000	9,000
Government	15,000	6,000	7,000	11,000	5,000	13,000
Health	31,000	16,000	23,000	30,000	10,000	27,000
Business/industry	31,000	12,000	17,000	28,000	8,000	27,000
4-year college/university	16,000	7,000	10,000	9,000	3,000	14,000
Other educational institution	12,000	4,000	11,000	6,000	3,000	8,000
Government	14,000	5,000	7,000	9,000	4,000	13,000
Science/mathematics teacher education	15,000	6,000	11,000	10,000	5,000	7,000
Business/industry	9,000	4,000	3,000	7,000	2,000	6,000
4-year college/university	3,000	2,000	3,000	2,000	1,000	S
Other educational institution	11,000	4,000	10,000	8,000	3,000	3,000
Government	3,000	1,000	1,000	2,000	1,000	1,000
Technology/technical fields	14,000	8,000	3,000	12,000	6,000	6,000
Business/industry	13,000	8,000	2,000	12,000	5,000	5,000
4-year college/university	2,000	1,000	500	1,000	1,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	1,000	S
Government	4,000	2,000	S	3,000	2,000	2,000
Other S&E-related fields	15,000	10,000	4,000	13,000	5,000	7,000
Business/industry	14,000	10,000	2,000	12,000	4,000	7,000
4-year college/university	3,000	2,000	1,000	2,000	S	1,000
Other educational institution	4,000	S	3,000	2,000	S	S
Government	5,000	2,000	S	4,000	3,000	3,000
Non-S&E fields	45,000	25,000	24,000	41,000	18,000	30,000
Business/industry	37,000	21,000	10,000	35,000	15,000	24,000
4-year college/university	11,000	6,000	7,000	8,000	3,000	6,000
Other educational institution	23,000	9,000	21,000	13,000	7,000	10,000
Government	16,000	8,000	4,000	15,000	7,000	12,000
Arts/humanities	16,000	9,000	7,000	14,000	8,000	8,000
Business/industry	16,000	9,000	3,000	14,000	7,000	8,000
4-year college/university	4,000	3,000	3,000	3,000	1,000	3,000
Other educational institution	6,000	2,000	6,000	3,000	2,000	1,000
Government	4,000	3,000	1,000	3,000	2,000	2,000
Education, except science/mathematics teacher education	25,000	11,000	18,000	18,000	8,000	12,000
Business/industry	12,000	6,000	4,000	10,000	4,000	7,000
4-year college/university	6,000	3,000	3,000	5,000	1,000	3,000
Other educational institution	20,000	8,000	18,000	13,000	6,000	8,000
Government	6,000	2,000	2,000	5,000	3,000	5,000
Management/administration	28,000	15,000	9,000	25,000	11,000	13,000
Business/industry	24,000	14,000	5,000	23,000	10,000	12,000
4-year college/university	6,000	3,000	3,000	4,000	2,000	3,000
Other educational institution	6,000	1,000	5,000	3,000	2,000	3,000
Government	8,000	4,000	3,000	7,000	4,000	4,000
Sales/marketing	10,000	4,000	2,000	8,000	5,000	5,000
Business/industry	10,000	4,000	2,000	9,000	4,000	5,000
4-year college/university	2,000	1,000	1,000	1,000	S	1,000
Other educational institution	1,000	S	1,000	1,000	S	S
Government	2,000	1,000	S	2,000	1,000	2,000
Social services/related	13,000	5,000	6,000	10,000	4,000	10,000

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Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	11,000	4,000	5,000	8,000	3,000	9,000
4-year college/university	3,000	1,000	2,000	2,000	1,000	2,000
Other educational institution	5,000	2,000	3,000	3,000	1,000	4,000
Government	5,000	2,000	2,000	4,000	2,000	4,000
Other non-S&E fields	23,000	12,000	7,000	19,000	8,000	17,000
Business/industry	20,000	9,000	4,000	16,000	6,000	14,000
4-year college/university	5,000	3,000	3,000	4,000	2,000	2,000
Other educational institution	5,000	3,000	5,000	2,000	2,000	3,000
Government	12,000	6,000	2,000	10,000	4,000	10,000
Bachelor's degrees, all fields	69,000	39,000	29,000	63,000	34,000	47,000
Business/industry	61,000	35,000	18,000	56,000	30,000	41,000
4-year college/university	20,000	9,000	9,000	14,000	7,000	14,000
Other educational institution	24,000	9,000	21,000	14,000	8,000	12,000
Government	30,000	14,000	10,000	24,000	12,000	20,000
S&E fields	60,000	30,000	20,000	56,000	25,000	36,000
Business/industry	54,000	27,000	13,000	50,000	23,000	31,000
4-year college/university	14,000	7,000	5,000	10,000	6,000	8,000
Other educational institution	17,000	7,000	15,000	11,000	5,000	8,000
Government	24,000	12,000	7,000	21,000	9,000	15,000
Sciences	59,000	29,000	19,000	54,000	24,000	35,000
Business/industry	52,000	25,000	12,000	48,000	22,000	31,000
4-year college/university	13,000	7,000	4,000	10,000	6,000	8,000
Other educational institution	17,000	6,000	15,000	11,000	5,000	8,000
Government	23,000	11,000	6,000	20,000	9,000	14,000
Biological/agricultural/environmental life sciences	26,000	12,000	10,000	21,000	9,000	16,000
Business/industry	24,000	10,000	6,000	20,000	8,000	15,000
4-year college/university	8,000	5,000	3,000	6,000	3,000	5,000
Other educational institution	8,000	2,000	7,000	5,000	2,000	4,000
Government	11,000	5,000	3,000	8,000	4,000	7,000
Agricultural/food sciences	12,000	4,000	5,000	11,000	3,000	8,000
Business/industry	10,000	4,000	1,000	10,000	2,000	7,000
4-year college/university	2,000	1,000	500	2,000	1,000	2,000
Other educational institution	4,000	1,000	4,000	2,000	S	3,000
Government	4,000	1,000	1,000	4,000	2,000	3,000
Biological sciences	24,000	11,000	10,000	17,000	9,000	15,000
Business/industry	21,000	9,000	5,000	15,000	8,000	13,000
4-year college/university	7,000	5,000	3,000	6,000	2,000	5,000
Other educational institution	7,000	2,000	6,000	4,000	2,000	4,000
Government	8,000	4,000	2,000	6,000	3,000	5,000
Environmental life sciences	7,000	4,000	1,000	7,000	3,000	4,000
Business/industry	6,000	3,000	1,000	6,000	2,000	4,000
4-year college/university	2,000	1,000	S	2,000	S	S
Other educational institution	1,000	500	1,000	1,000	S	S
Government	5,000	3,000	1,000	3,000	2,000	3,000
Computer/mathematical sciences	21,000	11,000	8,000	18,000	15,000	10,000
Business/industry	21,000	11,000	3,000	18,000	14,000	8,000
4-year college/university	4,000	2,000	1,000	3,000	3,000	2,000
Other educational institution	8,000	3,000	7,000	6,000	3,000	2,000
Government	6,000	4,000	1,000	5,000	4,000	4,000

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Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/information sciences	16,000	10,000	3,000	13,000	13,000	7,000
Business/industry	15,000	9,000	2,000	13,000	13,000	6,000
4-year college/university	3,000	2,000	500	3,000	3,000	1,000
Other educational institution	4,000	2,000	3,000	3,000	2,000	1,000
Government	5,000	3,000	1,000	4,000	4,000	3,000
Mathematical sciences	15,000	7,000	7,000	13,000	7,000	7,000
Business/industry	13,000	6,000	3,000	11,000	6,000	6,000
4-year college/university	2,000	1,000	1,000	2,000	2,000	1,000
Other educational institution	7,000	2,000	7,000	5,000	1,000	2,000
Government	4,000	3,000	S	3,000	2,000	2,000
Physical/related sciences	14,000	8,000	5,000	12,000	6,000	8,000
Business/industry	13,000	8,000	3,000	11,000	5,000	7,000
4-year college/university	4,000	2,000	1,000	3,000	2,000	2,000
Other educational institution	4,000	2,000	4,000	3,000	3,000	2,000
Government	5,000	3,000	1,000	4,000	2,000	3,000
Chemistry, except biochemistry	11,000	6,000	4,000	10,000	3,000	6,000
Business/industry	10,000	5,000	2,000	9,000	2,000	6,000
4-year college/university	2,000	2,000	1,000	1,000	1,000	1,000
Other educational institution	3,000	2,000	2,000	2,000	S	S
Government	3,000	2,000	S	3,000	1,000	2,000
Earth/atmospheric/ocean sciences	8,000	4,000	2,000	6,000	3,000	4,000
Business/industry	6,000	4,000	1,000	5,000	2,000	3,000
4-year college/university	1,000	500	500	1,000	*	1,000
Other educational institution	2,000	*	2,000	1,000	S	2,000
Government	3,000	2,000	S	2,000	2,000	2,000
Physics/astronomy	6,000	3,000	3,000	4,000	4,000	2,000
Business/industry	5,000	3,000	S	4,000	3,000	2,000
4-year college/university	1,000	1,000	500	1,000	500	1,000
Other educational institution	3,000	500	3,000	1,000	S	S
Government	1,000	500	S	1,000	500	1,000
Other physical sciences	5,000	3,000	1,000	4,000	2,000	3,000
Business/industry	4,000	2,000	S	3,000	1,000	2,000
4-year college/university	3,000	S	S	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	S	1,000
Social/related sciences	45,000	18,000	16,000	44,000	16,000	28,000
Business/industry	40,000	16,000	10,000	37,000	14,000	24,000
4-year college/university	8,000	3,000	3,000	6,000	2,000	5,000
Other educational institution	13,000	5,000	12,000	7,000	3,000	5,000
Government	18,000	7,000	6,000	15,000	6,000	12,000
Economics	19,000	6,000	4,000	18,000	6,000	9,000
Business/industry	19,000	5,000	2,000	17,000	6,000	9,000
4-year college/university	3,000	1,000	1,000	2,000	1,000	2,000
Other educational institution	2,000	*	2,000	1,000	S	S
Government	4,000	1,000	S	3,000	1,000	3,000
Political/related sciences	21,000	8,000	7,000	19,000	7,000	13,000
Business/industry	19,000	6,000	5,000	17,000	6,000	12,000
4-year college/university	4,000	1,000	1,000	4,000	1,000	1,000
Other educational institution	4,000	1,000	4,000	2,000	1,000	2,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	9,000	5,000	2,000	7,000	3,000	6,000
Psychology	25,000	9,000	11,000	23,000	10,000	14,000
Business/industry	20,000	8,000	5,000	18,000	9,000	12,000
4-year college/university	4,000	2,000	1,000	3,000	2,000	3,000
Other educational institution	9,000	3,000	9,000	5,000	2,000	4,000
Government	10,000	4,000	4,000	9,000	3,000	7,000
Sociology/anthropology	20,000	8,000	9,000	19,000	7,000	14,000
Business/industry	17,000	6,000	5,000	16,000	6,000	10,000
4-year college/university	4,000	1,000	2,000	3,000	1,000	2,000
Other educational institution	7,000	3,000	6,000	3,000	2,000	3,000
Government	10,000	4,000	4,000	9,000	4,000	7,000
Other social sciences	16,000	7,000	6,000	14,000	3,000	8,000
Business/industry	14,000	7,000	2,000	13,000	3,000	6,000
4-year college/university	3,000	1,000	1,000	2,000	1,000	2,000
Other educational institution	6,000	2,000	5,000	4,000	1,000	2,000
Government	5,000	3,000	1,000	4,000	2,000	4,000
Engineering	25,000	13,000	6,000	22,000	10,000	13,000
Business/industry	23,000	13,000	4,000	21,000	9,000	12,000
4-year college/university	3,000	2,000	1,000	2,000	2,000	2,000
Other educational institution	3,000	2,000	3,000	2,000	1,000	2,000
Government	8,000	5,000	2,000	7,000	4,000	4,000
Aerospace/related engineering	7,000	4,000	1,000	6,000	2,000	3,000
Business/industry	6,000	4,000	1,000	6,000	2,000	3,000
4-year college/university	1,000	500	*	1,000	1,000	S
Other educational institution	S	S	S	S	S	S
Government	2,000	1,000	S	1,000	1,000	1,000
Chemical engineering	7,000	3,000	1,000	6,000	2,000	3,000
Business/industry	6,000	2,000	500	5,000	2,000	3,000
4-year college/university	1,000	1,000	500	S	500	1,000
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Civil/architectural engineering	11,000	5,000	1,000	10,000	3,000	5,000
Business/industry	10,000	4,000	1,000	9,000	3,000	4,000
4-year college/university	1,000	1,000	500	1,000	S	S
Other educational institution	1,000	1,000	1,000	S	S	S
Government	4,000	3,000	S	4,000	2,000	2,000
Electrical/computer engineering	11,000	8,000	3,000	10,000	7,000	6,000
Business/industry	11,000	8,000	3,000	9,000	6,000	6,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	1,000	1,000	1,000	1,000	500	S
Government	3,000	2,000	S	3,000	2,000	2,000
Industrial engineering	8,000	3,000	1,000	7,000	3,000	3,000
Business/industry	8,000	3,000	1,000	7,000	3,000	3,000
4-year college/university	500	500	S	S	S	S
Other educational institution	1,000	S	1,000	1,000	S	S
Government	2,000	1,000	S	2,000	1,000	500
Mechanical engineering	13,000	6,000	2,000	11,000	3,000	7,000
Business/industry	12,000	6,000	1,000	11,000	3,000	6,000
4-year college/university	1,000	1,000	500	1,000	1,000	500

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	2,000	1,000	2,000	1,000	S	S
Government	4,000	1,000	S	3,000	1,000	2,000
Other engineering	10,000	5,000	3,000	8,000	5,000	6,000
Business/industry	9,000	5,000	3,000	8,000	4,000	5,000
4-year college/university	1,000	1,000	500	1,000	1,000	1,000
Other educational institution	2,000	S	1,000	S	S	S
Government	3,000	2,000	S	2,000	2,000	2,000
S&E-related fields	36,000	17,000	20,000	33,000	12,000	27,000
Business/industry	33,000	15,000	13,000	30,000	10,000	24,000
4-year college/university	13,000	6,000	8,000	7,000	3,000	11,000
Other educational institution	14,000	5,000	13,000	7,000	3,000	7,000
Government	13,000	5,000	6,000	9,000	5,000	12,000
Health	29,000	12,000	18,000	25,000	8,000	24,000
Business/industry	28,000	9,000	13,000	23,000	7,000	22,000
4-year college/university	12,000	5,000	8,000	7,000	3,000	11,000
Other educational institution	9,000	3,000	8,000	4,000	2,000	6,000
Government	12,000	4,000	6,000	7,000	3,000	11,000
Science/mathematics teacher education	13,000	5,000	9,000	9,000	3,000	6,000
Business/industry	8,000	3,000	3,000	7,000	2,000	5,000
4-year college/university	S	S	S	S	S	S
Other educational institution	9,000	3,000	9,000	5,000	2,000	3,000
Government	2,000	1,000	S	2,000	1,000	1,000
Technology/technical fields	13,000	8,000	3,000	12,000	5,000	5,000
Business/industry	12,000	8,000	2,000	11,000	5,000	5,000
4-year college/university	2,000	1,000	S	1,000	1,000	S
Other educational institution	2,000	1,000	2,000	1,000	1,000	S
Government	4,000	2,000	S	3,000	2,000	2,000
Other S&E-related fields	13,000	8,000	4,000	11,000	5,000	6,000
Business/industry	12,000	8,000	2,000	10,000	3,000	6,000
4-year college/university	2,000	1,000	S	1,000	S	S
Other educational institution	3,000	S	3,000	S	S	S
Government	4,000	1,000	S	4,000	3,000	2,000
Non-S&E fields	29,000	16,000	13,000	22,000	16,000	16,000
Business/industry	25,000	13,000	7,000	21,000	13,000	13,000
4-year college/university	5,000	4,000	2,000	4,000	3,000	4,000
Other educational institution	11,000	5,000	11,000	5,000	4,000	5,000
Government	9,000	5,000	3,000	8,000	5,000	6,000
Arts/humanities	15,000	8,000	5,000	12,000	7,000	7,000
Business/industry	13,000	8,000	3,000	12,000	7,000	7,000
4-year college/university	3,000	1,000	S	2,000	1,000	2,000
Other educational institution	4,000	2,000	4,000	2,000	2,000	S
Government	4,000	3,000	1,000	2,000	2,000	2,000
Education, except science/mathematics teacher education	11,000	5,000	9,000	9,000	5,000	7,000
Business/industry	8,000	4,000	3,000	6,000	3,000	5,000
4-year college/university	2,000	1,000	S	1,000	S	1,000
Other educational institution	8,000	3,000	8,000	5,000	3,000	3,000
Government	4,000	1,000	1,000	4,000	3,000	4,000
Management/administration	18,000	9,000	7,000	15,000	9,000	9,000
Business/industry	17,000	8,000	4,000	14,000	8,000	8,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	3,000	2,000	S	2,000	2,000	1,000
Other educational institution	5,000	1,000	4,000	2,000	2,000	3,000
Government	6,000	3,000	1,000	5,000	3,000	3,000
Sales/marketing	5,000	3,000	2,000	4,000	4,000	4,000
Business/industry	5,000	3,000	S	4,000	3,000	3,000
4-year college/university	1,000	S	S	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	S	S	S	S	S
Social services/related	5,000	2,000	2,000	3,000	3,000	3,000
Business/industry	4,000	2,000	1,000	2,000	3,000	3,000
4-year college/university	1,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	2,000	S	S	2,000	1,000	S
Other non-S&E fields	11,000	5,000	4,000	9,000	5,000	7,000
Business/industry	9,000	4,000	3,000	7,000	4,000	5,000
4-year college/university	3,000	2,000	S	2,000	1,000	2,000
Other educational institution	4,000	2,000	3,000	1,000	1,000	2,000
Government	4,000	2,000	1,000	3,000	1,000	3,000
Master's degrees, all fields	47,000	24,000	23,000	39,000	20,000	28,000
Business/industry	38,000	21,000	11,000	31,000	14,000	27,000
4-year college/university	13,000	8,000	8,000	9,000	4,000	8,000
Other educational institution	22,000	10,000	20,000	15,000	7,000	11,000
Government	19,000	10,000	6,000	15,000	8,000	11,000
S&E fields	28,000	15,000	11,000	22,000	11,000	16,000
Business/industry	23,000	12,000	5,000	20,000	9,000	13,000
4-year college/university	8,000	6,000	4,000	5,000	4,000	4,000
Other educational institution	10,000	3,000	8,000	6,000	3,000	6,000
Government	12,000	5,000	3,000	10,000	5,000	7,000
Sciences	25,000	13,000	10,000	21,000	10,000	15,000
Business/industry	20,000	10,000	5,000	17,000	8,000	11,000
4-year college/university	8,000	5,000	4,000	5,000	3,000	4,000
Other educational institution	9,000	3,000	8,000	5,000	3,000	6,000
Government	11,000	5,000	3,000	9,000	5,000	6,000
Biological/agricultural/environmental life sciences	9,000	5,000	5,000	7,000	3,000	6,000
Business/industry	8,000	3,000	2,000	6,000	3,000	5,000
4-year college/university	4,000	3,000	3,000	2,000	2,000	1,000
Other educational institution	3,000	1,000	3,000	2,000	500	1,000
Government	4,000	2,000	2,000	3,000	1,000	3,000
Agricultural/food sciences	4,000	2,000	1,000	3,000	1,000	3,000
Business/industry	3,000	1,000	S	3,000	S	2,000
4-year college/university	2,000	2,000	1,000	1,000	S	1,000
Other educational institution	1,000	500	1,000	S	S	S
Government	1,000	1,000	S	500	S	1,000
Biological sciences	7,000	4,000	4,000	6,000	3,000	4,000
Business/industry	6,000	3,000	2,000	4,000	2,000	3,000
4-year college/university	3,000	2,000	2,000	2,000	2,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	S	1,000
Government	3,000	1,000	2,000	3,000	500	2,000
Environmental life sciences	4,000	2,000	1,000	3,000	2,000	3,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	3,000	1,000	S	3,000	2,000	2,000
4-year college/university	1,000	500	1,000	1,000	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	2,000
Computer/mathematical sciences	11,000	7,000	4,000	9,000	7,000	4,000
Business/industry	10,000	6,000	2,000	8,000	6,000	4,000
4-year college/university	4,000	3,000	2,000	2,000	2,000	1,000
Other educational institution	3,000	1,000	3,000	2,000	2,000	1,000
Government	4,000	1,000	S	3,000	3,000	1,000
Computer/information sciences	10,000	7,000	2,000	8,000	6,000	3,000
Business/industry	9,000	6,000	1,000	7,000	6,000	3,000
4-year college/university	3,000	3,000	1,000	2,000	2,000	500
Other educational institution	2,000	1,000	2,000	1,000	1,000	S
Government	3,000	1,000	S	3,000	3,000	500
Mathematical sciences	5,000	3,000	3,000	4,000	3,000	2,000
Business/industry	5,000	2,000	1,000	4,000	2,000	2,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	1,000	1,000
Government	1,000	1,000	S	1,000	1,000	1,000
Physical/related sciences	7,000	4,000	3,000	5,000	3,000	4,000
Business/industry	6,000	4,000	1,000	4,000	3,000	4,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	3,000	1,000	3,000	1,000	1,000	500
Government	2,000	1,000	*	2,000	1,000	1,000
Chemistry, except biochemistry	4,000	2,000	2,000	3,000	1,000	3,000
Business/industry	4,000	2,000	S	3,000	1,000	2,000
4-year college/university	1,000	1,000	500	1,000	S	1,000
Other educational institution	2,000	500	2,000	1,000	S	S
Government	1,000	1,000	S	500	*	1,000
Earth/atmospheric/ocean sciences	4,000	2,000	2,000	3,000	2,000	2,000
Business/industry	3,000	2,000	S	3,000	2,000	2,000
4-year college/university	1,000	1,000	1,000	*	*	S
Other educational institution	2,000	500	1,000	1,000	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Physics/astronomy	3,000	2,000	1,000	2,000	2,000	2,000
Business/industry	3,000	2,000	S	2,000	1,000	2,000
4-year college/university	1,000	1,000	1,000	500	1,000	*
Other educational institution	1,000	500	1,000	500	S	S
Government	500	500	S	500	S	S
Other physical sciences	1,000	1,000	500	1,000	S	S
Business/industry	1,000	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	500	S	500	S	S	S
Government	1,000	S	S	S	S	S
Social/related sciences	19,000	8,000	8,000	17,000	6,000	12,000
Business/industry	15,000	6,000	4,000	14,000	4,000	10,000
4-year college/university	6,000	3,000	2,000	4,000	1,000	3,000
Other educational institution	8,000	3,000	7,000	4,000	2,000	6,000
Government	8,000	4,000	2,000	7,000	3,000	5,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Economics	6,000	2,000	2,000	6,000	2,000	4,000
Business/industry	6,000	2,000	S	5,000	2,000	3,000
4-year college/university	2,000	1,000	1,000	1,000	500	S
Other educational institution	2,000	1,000	1,000	1,000	S	S
Government	2,000	1,000	S	1,000	1,000	2,000
Political/related sciences	8,000	4,000	2,000	7,000	3,000	3,000
Business/industry	6,000	3,000	1,000	5,000	2,000	3,000
4-year college/university	2,000	1,000	1,000	2,000	S	1,000
Other educational institution	1,000	500	1,000	1,000	S	S
Government	5,000	2,000	S	4,000	1,000	2,000
Psychology	14,000	5,000	7,000	12,000	4,000	10,000
Business/industry	10,000	4,000	4,000	9,000	2,000	6,000
4-year college/university	3,000	2,000	1,000	2,000	1,000	2,000
Other educational institution	7,000	2,000	6,000	4,000	2,000	5,000
Government	6,000	3,000	1,000	5,000	2,000	4,000
Sociology/anthropology	5,000	3,000	2,000	4,000	2,000	4,000
Business/industry	4,000	2,000	1,000	3,000	1,000	3,000
4-year college/university	3,000	2,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	S	S
Government	2,000	1,000	S	2,000	S	2,000
Other social sciences	6,000	3,000	3,000	5,000	1,000	4,000
Business/industry	5,000	2,000	1,000	4,000	1,000	4,000
4-year college/university	3,000	1,000	1,000	2,000	500	1,000
Other educational institution	2,000	2,000	2,000	2,000	S	1,000
Government	3,000	1,000	S	2,000	500	1,000
Engineering	12,000	8,000	2,000	9,000	6,000	6,000
Business/industry	11,000	7,000	1,000	9,000	5,000	5,000
4-year college/university	2,000	2,000	1,000	1,000	2,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	500	1,000
Government	4,000	3,000	S	3,000	1,000	2,000
Aerospace/related engineering	2,000	1,000	500	1,000	1,000	1,000
Business/industry	2,000	1,000	S	1,000	1,000	1,000
4-year college/university	500	500	*	*	*	S
Other educational institution	S	S	S	S	S	S
Government	1,000	1,000	S	500	500	S
Chemical engineering	3,000	1,000	1,000	3,000	1,000	1,000
Business/industry	3,000	1,000	S	3,000	1,000	1,000
4-year college/university	500	500	S	S	500	S
Other educational institution	S	S	S	S	S	S
Government	1,000	*	S	1,000	S	500
Civil/architectural engineering	5,000	3,000	1,000	4,000	2,000	3,000
Business/industry	4,000	3,000	S	4,000	1,000	3,000
4-year college/university	1,000	1,000	500	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Electrical/computer engineering	6,000	5,000	1,000	5,000	4,000	2,000
Business/industry	6,000	5,000	500	5,000	4,000	2,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	S
Other educational institution	500	S	500	S	S	S

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	1,000	1,000	S	1,000	1,000	1,000
Industrial engineering	2,000	1,000	500	2,000	1,000	1,000
Business/industry	2,000	1,000	S	2,000	1,000	1,000
4-year college/university	500	500	S	S	S	S
Other educational institution	1,000	S	S	S	S	S
Government	1,000	1,000	S	500	S	S
Mechanical engineering	5,000	4,000	1,000	4,000	2,000	2,000
Business/industry	5,000	4,000	S	4,000	2,000	2,000
4-year college/university	1,000	1,000	1,000	500	1,000	S
Other educational institution	500	S	S	S	S	S
Government	1,000	1,000	S	1,000	500	1,000
Other engineering	5,000	3,000	1,000	4,000	2,000	3,000
Business/industry	5,000	3,000	S	4,000	2,000	3,000
4-year college/university	1,000	1,000	500	500	500	1,000
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
S&E-related fields	20,000	11,000	13,000	15,000	6,000	14,000
Business/industry	18,000	8,000	8,000	13,000	5,000	14,000
4-year college/university	7,000	3,000	4,000	5,000	2,000	6,000
Other educational institution	10,000	4,000	9,000	7,000	3,000	6,000
Government	8,000	4,000	3,000	5,000	2,000	6,000
Health	16,000	8,000	11,000	12,000	5,000	14,000
Business/industry	15,000	6,000	8,000	10,000	4,000	14,000
4-year college/university	6,000	2,000	4,000	5,000	1,000	5,000
Other educational institution	7,000	3,000	6,000	4,000	1,000	5,000
Government	7,000	3,000	3,000	4,000	2,000	6,000
Science/mathematics teacher education	8,000	4,000	7,000	7,000	4,000	3,000
Business/industry	4,000	2,000	2,000	3,000	2,000	2,000
4-year college/university	2,000	500	2,000	1,000	1,000	S
Other educational institution	7,000	3,000	7,000	6,000	3,000	2,000
Government	2,000	1,000	S	1,000	S	S
Technology/technical fields	4,000	3,000	1,000	3,000	2,000	2,000
Business/industry	4,000	3,000	S	3,000	2,000	2,000
4-year college/university	500	500	S	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	S	S	1,000	1,000	1,000
Other S&E-related fields	7,000	5,000	1,000	7,000	2,000	5,000
Business/industry	7,000	4,000	S	6,000	2,000	4,000
4-year college/university	2,000	1,000	1,000	1,000	S	S
Other educational institution	2,000	S	S	S	S	S
Government	3,000	2,000	S	3,000	S	2,000
Non-S&E fields	34,000	17,000	18,000	31,000	13,000	19,000
Business/industry	25,000	13,000	6,000	24,000	9,000	17,000
4-year college/university	8,000	4,000	6,000	6,000	2,000	4,000
Other educational institution	19,000	7,000	16,000	12,000	5,000	9,000
Government	11,000	6,000	3,000	10,000	5,000	7,000
Arts/humanities	9,000	5,000	5,000	7,000	3,000	4,000
Business/industry	7,000	4,000	1,000	7,000	2,000	4,000
4-year college/university	3,000	3,000	3,000	1,000	500	1,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	4,000	2,000	4,000	2,000	1,000	1,000
Government	2,000	1,000	S	2,000	S	1,000
Education, except science/mathematics teacher education	21,000	9,000	15,000	15,000	6,000	9,000
Business/industry	9,000	4,000	3,000	7,000	3,000	6,000
4-year college/university	4,000	3,000	3,000	3,000	1,000	2,000
Other educational institution	17,000	7,000	15,000	11,000	4,000	7,000
Government	4,000	2,000	1,000	3,000	2,000	3,000
Management/administration	20,000	12,000	5,000	20,000	8,000	11,000
Business/industry	18,000	11,000	3,000	18,000	8,000	10,000
4-year college/university	5,000	2,000	2,000	3,000	1,000	2,000
Other educational institution	4,000	1,000	3,000	2,000	1,000	2,000
Government	7,000	3,000	2,000	6,000	3,000	3,000
Sales/marketing	8,000	3,000	2,000	7,000	3,000	3,000
Business/industry	8,000	3,000	S	7,000	2,000	3,000
4-year college/university	1,000	S	S	1,000	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	1,000	S	S	1,000	S	S
Social services/related	11,000	4,000	5,000	10,000	3,000	9,000
Business/industry	9,000	3,000	4,000	8,000	1,000	8,000
4-year college/university	2,000	1,000	1,000	2,000	S	2,000
Other educational institution	4,000	1,000	3,000	3,000	1,000	4,000
Government	5,000	2,000	1,000	3,000	2,000	4,000
Other non-S&E fields	12,000	6,000	5,000	9,000	5,000	7,000
Business/industry	8,000	4,000	2,000	7,000	3,000	5,000
4-year college/university	4,000	1,000	2,000	4,000	1,000	2,000
Other educational institution	3,000	1,000	3,000	1,000	2,000	2,000
Government	7,000	4,000	2,000	6,000	3,000	4,000
Doctorate degrees, all fields	11,000	8,000	6,000	8,000	3,000	5,000
Business/industry	7,000	5,000	2,000	6,000	2,000	4,000
4-year college/university	7,000	5,000	5,000	5,000	1,000	2,000
Other educational institution	5,000	3,000	4,000	3,000	2,000	2,000
Government	3,000	2,000	1,000	2,000	1,000	2,000
S&E fields	5,000	5,000	3,000	3,000	1,000	2,000
Business/industry	4,000	3,000	1,000	3,000	1,000	2,000
4-year college/university	4,000	4,000	3,000	2,000	1,000	1,000
Other educational institution	1,000	500	1,000	500	500	500
Government	2,000	2,000	500	1,000	1,000	1,000
Sciences	5,000	5,000	3,000	3,000	1,000	2,000
Business/industry	3,000	3,000	1,000	3,000	1,000	2,000
4-year college/university	4,000	4,000	3,000	2,000	1,000	1,000
Other educational institution	1,000	500	1,000	500	500	500
Government	2,000	2,000	500	1,000	500	1,000
Biological/agricultural/environmental life sciences	3,000	3,000	2,000	2,000	1,000	1,000
Business/industry	2,000	2,000	1,000	1,000	1,000	1,000
4-year college/university	2,000	2,000	1,000	1,000	500	1,000
Other educational institution	1,000	500	500	500	*	500
Government	1,000	1,000	*	1,000	500	500
Agricultural/food sciences	1,000	1,000	500	1,000	500	500
Business/industry	1,000	500	*	1,000	*	500

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	1,000	1,000	500	500	*	500
Other educational institution	*	S	*	*	S	S
Government	500	500	S	500	*	*
Biological sciences	3,000	3,000	2,000	2,000	1,000	1,000
Business/industry	2,000	1,000	1,000	1,000	1,000	1,000
4-year college/university	2,000	2,000	1,000	1,000	500	1,000
Other educational institution	500	500	500	500	*	*
Government	1,000	1,000	*	500	500	500
Environmental life sciences	500	500	500	500	*	500
Business/industry	500	500	S	500	S	*
4-year college/university	500	500	500	500	S	*
Other educational institution	*	S	S	S	S	S
Government	500	500	S	500	S	*
Computer/mathematical sciences	2,000	2,000	2,000	1,000	1,000	1,000
Business/industry	1,000	1,000	*	1,000	1,000	1,000
4-year college/university	2,000	2,000	2,000	500	500	500
Other educational institution	500	*	500	*	*	*
Government	500	500	S	500	500	*
Computer/information sciences	1,000	1,000	500	1,000	500	500
Business/industry	1,000	1,000	S	500	500	500
4-year college/university	1,000	1,000	500	500	500	*
Other educational institution	*	S	*	*	*	S
Government	500	*	S	*	*	S
Mathematical sciences	2,000	2,000	2,000	500	1,000	500
Business/industry	1,000	1,000	*	500	500	500
4-year college/university	2,000	2,000	2,000	500	500	500
Other educational institution	500	*	500	*	*	*
Government	500	500	S	500	500	*
Physical/related sciences	2,000	2,000	1,000	2,000	1,000	1,000
Business/industry	2,000	1,000	1,000	1,000	1,000	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	500
Other educational institution	500	500	500	500	*	500
Government	1,000	1,000	*	1,000	500	500
Chemistry, except biochemistry	2,000	1,000	1,000	1,000	500	1,000
Business/industry	1,000	1,000	500	1,000	500	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	500
Other educational institution	500	*	500	500	*	*
Government	1,000	500	S	500	*	500
Earth/atmospheric/ocean sciences	1,000	1,000	500	500	500	500
Business/industry	500	500	*	500	500	500
4-year college/university	1,000	1,000	500	500	500	500
Other educational institution	500	*	*	*	S	S
Government	500	500	S	500	500	500
Physics/astronomy	1,000	1,000	1,000	1,000	1,000	500
Business/industry	1,000	1,000	*	1,000	1,000	500
4-year college/university	1,000	1,000	1,000	500	500	500
Other educational institution	500	*	500	*	S	*
Government	500	500	S	500	500	500
Other physical sciences	1,000	1,000	1,000	1,000	*	*

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	1,000	500	S	1,000	*	*
4-year college/university	1,000	1,000	*	*	S	S
Other educational institution	S	S	S	S	S	S
Government	*	*	S	*	S	S
Social/related sciences	2,000	2,000	2,000	2,000	500	1,000
Business/industry	2,000	1,000	500	1,000	500	1,000
4-year college/university	2,000	1,000	1,000	1,000	500	1,000
Other educational institution	1,000	500	500	500	*	500
Government	1,000	500	500	1,000	500	500
Economics	1,000	1,000	1,000	500	500	500
Business/industry	500	500	*	500	500	500
4-year college/university	1,000	500	1,000	500	*	500
Other educational institution	*	S	*	S	S	S
Government	500	500	S	500	*	500
Political/related sciences	1,000	1,000	1,000	1,000	500	500
Business/industry	1,000	1,000	*	1,000	*	500
4-year college/university	1,000	500	1,000	500	*	500
Other educational institution	500	*	500	500	S	*
Government	500	500	S	500	S	500
Psychology	1,000	1,000	1,000	1,000	500	1,000
Business/industry	1,000	1,000	500	1,000	500	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	500
Other educational institution	500	500	500	500	*	500
Government	500	500	500	500	*	500
Sociology/anthropology	1,000	1,000	1,000	1,000	500	500
Business/industry	1,000	1,000	*	500	*	500
4-year college/university	1,000	1,000	1,000	500	*	500
Other educational institution	500	*	500	500	S	*
Government	500	500	S	500	*	*
Other social sciences	1,000	1,000	1,000	1,000	500	500
Business/industry	500	500	*	500	500	500
4-year college/university	1,000	1,000	1,000	500	*	500
Other educational institution	500	*	500	500	S	*
Government	500	500	S	500	S	*
Engineering	2,000	2,000	1,000	1,000	1,000	1,000
Business/industry	2,000	2,000	500	1,000	1,000	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	500
Other educational institution	500	*	500	*	*	S
Government	1,000	1,000	*	1,000	500	500
Aerospace/related engineering	1,000	1,000	500	500	500	*
Business/industry	1,000	1,000	S	500	*	*
4-year college/university	500	500	500	*	*	S
Other educational institution	S	S	S	S	S	S
Government	500	500	S	*	*	S
Chemical engineering	1,000	1,000	500	1,000	500	500
Business/industry	1,000	1,000	*	500	500	500
4-year college/university	500	500	500	500	*	*
Other educational institution	*	S	*	S	S	S
Government	500	500	S	500	S	500

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Civil/architectural engineering	1,000	500	500	500	500	500
Business/industry	1,000	500	S	500	500	500
4-year college/university	500	500	500	500	*	*
Other educational institution	S	S	S	S	S	S
Government	500	500	S	500	*	*
Electrical/computer engineering	1,000	1,000	500	1,000	1,000	500
Business/industry	1,000	1,000	*	1,000	500	500
4-year college/university	1,000	1,000	500	500	500	*
Other educational institution	*	S	*	S	S	S
Government	500	500	S	500	500	*
Industrial engineering	500	500	500	500	500	*
Business/industry	500	500	S	500	500	*
4-year college/university	500	500	500	*	S	*
Other educational institution	S	S	S	S	S	S
Government	*	*	S	*	S	S
Mechanical engineering	1,000	500	500	500	500	500
Business/industry	500	500	*	500	500	500
4-year college/university	500	500	500	500	*	*
Other educational institution	*	S	S	S	S	S
Government	500	500	S	*	*	S
Other engineering	1,000	1,000	500	1,000	500	500
Business/industry	1,000	1,000	*	1,000	500	500
4-year college/university	1,000	500	500	500	500	500
Other educational institution	500	S	*	*	S	S
Government	500	500	S	500	500	*
S&E-related fields	4,000	4,000	2,000	4,000	1,000	2,000
Business/industry	3,000	3,000	500	3,000	500	1,000
4-year college/university	2,000	2,000	2,000	1,000	500	1,000
Other educational institution	1,000	1,000	1,000	1,000	S	500
Government	2,000	500	*	1,000	*	1,000
Health	3,000	1,000	1,000	2,000	500	2,000
Business/industry	2,000	1,000	500	1,000	500	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	1,000
Other educational institution	500	*	*	*	S	*
Government	1,000	500	*	1,000	*	1,000
Science/mathematics teacher education	2,000	2,000	2,000	1,000	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	2,000	2,000	2,000	500	S	S
Other educational institution	1,000	S	500	1,000	S	S
Government	S	S	S	S	S	S
Technology/technical fields	1,000	1,000	S	500	500	S
Business/industry	1,000	1,000	S	S	500	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other S&E-related fields	3,000	3,000	1,000	3,000	S	S
Business/industry	3,000	3,000	S	S	S	S
4-year college/university	1,000	500	1,000	S	S	S
Other educational institution	S	S	S	S	S	S

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	S	S	S	S	S	S
Non-S&E fields	8,000	5,000	5,000	6,000	2,000	4,000
Business/industry	4,000	3,000	2,000	3,000	1,000	3,000
4-year college/university	5,000	2,000	3,000	4,000	500	2,000
Other educational institution	4,000	3,000	4,000	3,000	2,000	1,000
Government	2,000	1,000	S	1,000	1,000	1,000
Arts/humanities	2,000	1,000	1,000	2,000	500	1,000
Business/industry	1,000	500	S	1,000	500	S
4-year college/university	2,000	1,000	1,000	1,000	S	1,000
Other educational institution	1,000	S	500	S	S	S
Government	S	S	S	S	S	S
Education, except science/mathematics teacher education	6,000	3,000	4,000	5,000	2,000	3,000
Business/industry	2,000	1,000	1,000	1,000	S	1,000
4-year college/university	4,000	1,000	2,000	4,000	500	2,000
Other educational institution	4,000	2,000	3,000	3,000	S	1,000
Government	1,000	S	S	1,000	S	S
Management/administration	2,000	2,000	1,000	2,000	S	1,000
Business/industry	2,000	1,000	S	1,000	S	1,000
4-year college/university	1,000	1,000	1,000	1,000	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Sales/marketing	500	500	500	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	500	500	500	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	3,000	2,000	2,000	2,000	S	2,000
Business/industry	2,000	S	1,000	1,000	S	1,000
4-year college/university	1,000	1,000	1,000	1,000	S	1,000
Other educational institution	1,000	S	S	S	S	S
Government	S	S	S	S	S	S
Other non-S&E fields	3,000	2,000	1,000	2,000	1,000	2,000
Business/industry	3,000	2,000	S	2,000	S	2,000
4-year college/university	1,000	1,000	1,000	1,000	S	500
Other educational institution	1,000	S	S	S	S	S
Government	1,000	S	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 and <http://sestat.nsf.gov/docs/occ03maj.html> for a detailed description of the occupational classification. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. 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. Government includes federal, military, state, and local employers. 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.