

TABLE A-15. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2006

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All degree levels and fields ^a	83,000	30,000	45,000	41,000	32,000	46,000	27,000	28,000	27,000	46,000
S&E fields	66,000	21,000	30,000	28,000	22,000	33,000	17,000	21,000	20,000	36,000
Sciences	63,000	19,000	27,000	26,000	20,000	30,000	16,000	18,000	19,000	34,000
Biological/agricultural/environmental life sciences	28,000	6,000	11,000	10,000	9,000	12,000	7,000	9,000	7,000	12,000
Agricultural sciences	13,000	3,000	5,000	5,000	5,000	5,000	3,000	5,000	3,000	5,000
Biological sciences	24,000	6,000	9,000	8,000	7,000	10,000	5,000	7,000	6,000	10,000
Environmental life sciences	9,000	2,000	4,000	3,000	3,000	5,000	2,000	2,000	3,000	4,000
Computer/mathematical sciences	23,000	7,000	12,000	11,000	7,000	12,000	5,000	8,000	6,000	22,000
Computer/information sciences	17,000	6,000	10,000	9,000	6,000	10,000	4,000	6,000	5,000	21,000
Mathematics/statistics	16,000	5,000	6,000	5,000	4,000	7,000	3,000	5,000	4,000	6,000
Physical/related sciences	14,000	4,000	7,000	5,000	3,000	6,000	3,000	4,000	5,000	7,000
Chemistry, except biochemistry	11,000	3,000	5,000	4,000	2,000	5,000	3,000	3,000	3,000	4,000
Earth/atmospheric/ocean sciences	8,000	2,000	3,000	3,000	2,000	3,000	1,000	2,000	4,000	4,000
Physics/astronomy	6,000	2,000	3,000	2,000	1,000	3,000	1,000	1,000	2,000	3,000
Other physical sciences	5,000	2,000	3,000	1,000	1,000	1,000	*	2,000	2,000	2,000
Social/related sciences	50,000	15,000	20,000	19,000	14,000	25,000	11,000	12,000	13,000	22,000
Economics	19,000	6,000	9,000	7,000	6,000	9,000	4,000	5,000	5,000	8,000
Political/related sciences	22,000	6,000	9,000	7,000	4,000	12,000	4,000	5,000	5,000	8,000
Psychology	26,000	8,000	11,000	12,000	7,000	14,000	7,000	8,000	7,000	12,000
Sociology/anthropology	20,000	6,000	9,000	8,000	6,000	10,000	4,000	5,000	7,000	10,000
Other social sciences	15,000	4,000	5,000	6,000	5,000	8,000	2,000	4,000	4,000	7,000
Engineering	27,000	8,000	11,000	11,000	7,000	11,000	7,000	9,000	7,000	12,000
Aerospace/aeronautical/astronautical engineering	6,000	1,000	2,000	2,000	1,000	2,000	1,000	2,000	1,000	3,000
Chemical engineering	7,000	2,000	3,000	3,000	2,000	2,000	2,000	2,000	2,000	3,000
Civil/architectural engineering	11,000	3,000	4,000	4,000	3,000	5,000	3,000	4,000	3,000	4,000
Electrical/computer engineering	14,000	4,000	5,000	5,000	3,000	6,000	3,000	5,000	4,000	7,000
Industrial engineering	8,000	2,000	2,000	3,000	2,000	4,000	3,000	2,000	2,000	3,000
Mechanical engineering	13,000	4,000	5,000	6,000	3,000	6,000	3,000	4,000	3,000	5,000
Other engineering	11,000	3,000	4,000	4,000	3,000	4,000	2,000	3,000	3,000	4,000
S&E-related fields	43,000	13,000	21,000	24,000	17,000	24,000	13,000	17,000	14,000	20,000
Health	35,000	11,000	18,000	22,000	16,000	23,000	12,000	15,000	13,000	18,000
Science/mathematics teacher education	16,000	5,000	6,000	6,000	4,000	6,000	3,000	6,000	3,000	4,000
Technology/technical fields	13,000	3,000	5,000	5,000	5,000	6,000	3,000	4,000	4,000	5,000
Other S&E-related fields	14,000	4,000	6,000	6,000	4,000	8,000	2,000	5,000	4,000	6,000
Non-S&E fields	47,000	14,000	21,000	19,000	12,000	22,000	12,000	14,000	12,000	19,000
Arts/humanities	13,000	4,000	6,000	5,000	3,000	5,000	3,000	3,000	4,000	6,000
Education, except science/mathematics teacher education	24,000	6,000	11,000	10,000	7,000	8,000	6,000	7,000	7,000	9,000
Management/administration	27,000	8,000	10,000	11,000	7,000	13,000	6,000	8,000	6,000	10,000

TABLE A-15. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2006

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Sales/marketing	9,000	3,000	4,000	4,000	3,000	3,000	S	3,000	3,000	3,000
Social services/related	14,000	4,000	6,000	5,000	3,000	6,000	4,000	4,000	4,000	5,000
Other non-S&E fields	25,000	8,000	10,000	10,000	7,000	13,000	5,000	7,000	6,000	11,000
Bachelor's degrees	70,000	23,000	33,000	34,000	26,000	34,000	22,000	25,000	24,000	39,000
S&E fields	61,000	18,000	27,000	26,000	21,000	29,000	16,000	19,000	19,000	33,000
Sciences	60,000	16,000	26,000	24,000	20,000	28,000	15,000	16,000	18,000	32,000
Biological/agricultural/environmental life sciences	27,000	6,000	11,000	10,000	9,000	12,000	6,000	9,000	7,000	12,000
Agricultural sciences	12,000	3,000	5,000	5,000	5,000	5,000	3,000	5,000	3,000	5,000
Biological sciences	23,000	5,000	9,000	8,000	7,000	10,000	5,000	7,000	6,000	9,000
Environmental life sciences	8,000	1,000	4,000	3,000	3,000	4,000	2,000	2,000	2,000	4,000
Computer/mathematical sciences	21,000	6,000	10,000	10,000	7,000	11,000	5,000	8,000	6,000	21,000
Computer/information sciences	15,000	5,000	9,000	8,000	6,000	9,000	3,000	5,000	4,000	20,000
Mathematics/statistics	15,000	4,000	5,000	4,000	3,000	6,000	3,000	5,000	3,000	6,000
Physical/related sciences	13,000	4,000	6,000	5,000	3,000	6,000	3,000	4,000	4,000	6,000
Chemistry, except biochemistry	10,000	3,000	4,000	4,000	2,000	4,000	3,000	3,000	3,000	4,000
Earth/atmospheric/ocean sciences	7,000	1,000	3,000	2,000	2,000	3,000	1,000	2,000	3,000	3,000
Physics/astronomy	6,000	2,000	3,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000
Other physical sciences	4,000	S	2,000	1,000	S	1,000	S	1,000	2,000	2,000
Social/related sciences	46,000	13,000	18,000	18,000	13,000	23,000	11,000	10,000	13,000	21,000
Economics	19,000	5,000	9,000	7,000	6,000	8,000	4,000	5,000	5,000	8,000
Political/related sciences	20,000	5,000	8,000	6,000	4,000	10,000	4,000	5,000	5,000	8,000
Psychology	23,000	7,000	10,000	10,000	7,000	12,000	6,000	6,000	6,000	11,000
Sociology/anthropology	21,000	6,000	9,000	8,000	6,000	9,000	4,000	4,000	7,000	10,000
Other social sciences	14,000	4,000	5,000	5,000	5,000	8,000	2,000	4,000	3,000	7,000
Engineering	24,000	7,000	10,000	10,000	6,000	10,000	7,000	8,000	6,000	11,000
Aerospace/aeronautical/astronautical engineering	5,000	1,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	3,000
Chemical engineering	6,000	1,000	2,000	3,000	2,000	2,000	2,000	2,000	2,000	2,000
Civil/architectural engineering	9,000	3,000	3,000	4,000	3,000	4,000	3,000	4,000	2,000	4,000
Electrical/computer engineering	11,000	3,000	5,000	5,000	3,000	5,000	3,000	4,000	4,000	6,000
Industrial engineering	7,000	2,000	2,000	2,000	2,000	4,000	2,000	2,000	1,000	3,000
Mechanical engineering	11,000	3,000	4,000	6,000	2,000	5,000	3,000	4,000	3,000	5,000
Other engineering	9,000	2,000	4,000	4,000	2,000	4,000	2,000	3,000	3,000	4,000
S&E-related fields	38,000	11,000	16,000	19,000	12,000	18,000	10,000	14,000	12,000	15,000
Health	30,000	9,000	13,000	16,000	11,000	17,000	9,000	11,000	11,000	13,000
Science/mathematics teacher education	12,000	3,000	5,000	5,000	3,000	4,000	2,000	5,000	2,000	3,000
Technology/technical fields	12,000	3,000	5,000	5,000	4,000	5,000	3,000	4,000	3,000	5,000
Other S&E-related fields	12,000	3,000	5,000	5,000	3,000	7,000	2,000	4,000	3,000	5,000

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Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Non-S&E fields	28,000	7,000	8,000	11,000	7,000	11,000	5,000	8,000	7,000	11,000
Arts/humanities	11,000	3,000	4,000	5,000	3,000	5,000	2,000	3,000	3,000	5,000
Education, except science/mathematics teacher education	10,000	2,000	4,000	5,000	4,000	4,000	2,000	4,000	4,000	4,000
Management/administration	17,000	4,000	5,000	7,000	4,000	8,000	3,000	5,000	4,000	7,000
Sales/marketing	5,000	2,000	2,000	3,000	1,000	2,000	S	2,000	2,000	2,000
Social services/related	5,000	2,000	2,000	S	1,000	2,000	S	S	S	2,000
Other non-S&E fields	11,000	3,000	3,000	4,000	3,000	4,000	3,000	3,000	3,000	5,000
Master's degrees	46,000	14,000	22,000	19,000	14,000	23,000	12,000	15,000	13,000	21,000
S&E fields	26,000	8,000	10,000	9,000	6,000	12,000	5,000	8,000	7,000	12,000
Sciences	22,000	7,000	9,000	8,000	5,000	10,000	4,000	7,000	7,000	10,000
Biological/agricultural/environmental life sciences	8,000	3,000	3,000	3,000	2,000	3,000	2,000	3,000	2,000	4,000
Agricultural sciences	3,000	S	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Biological sciences	7,000	2,000	3,000	3,000	2,000	3,000	1,000	3,000	1,000	3,000
Environmental life sciences	4,000	1,000	1,000	1,000	500	2,000	S	1,000	1,000	2,000
Computer/mathematical sciences	10,000	3,000	5,000	4,000	2,000	5,000	2,000	3,000	3,000	5,000
Computer/information sciences	9,000	3,000	4,000	3,000	2,000	4,000	1,000	3,000	2,000	4,000
Mathematics/statistics	5,000	2,000	3,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000
Physical/related sciences	6,000	2,000	2,000	2,000	2,000	2,000	1,000	2,000	3,000	2,000
Chemistry, except biochemistry	3,000	1,000	2,000	1,000	1,000	2,000	500	1,000	500	1,000
Earth/atmospheric/ocean sciences	4,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	2,000	2,000
Physics/astronomy	3,000	1,000	1,000	1,000	1,000	1,000	500	1,000	1,000	1,000
Other physical sciences	1,000	S	S	S	S	500	S	S	S	*
Social/related sciences	17,000	6,000	7,000	6,000	4,000	8,000	3,000	5,000	5,000	7,000
Economics	6,000	2,000	3,000	2,000	1,000	2,000	1,000	2,000	2,000	2,000
Political/related sciences	8,000	3,000	3,000	2,000	2,000	5,000	1,000	2,000	2,000	2,000
Psychology	13,000	4,000	5,000	5,000	3,000	5,000	3,000	4,000	4,000	6,000
Sociology/anthropology	5,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	2,000	2,000
Other social sciences	5,000	2,000	2,000	2,000	1,000	3,000	1,000	3,000	1,000	2,000
Engineering	12,000	3,000	5,000	4,000	2,000	5,000	2,000	4,000	3,000	5,000
Aerospace/aeronautical/astronautical engineering	2,000	*	1,000	500	500	1,000	S	1,000	1,000	1,000
Chemical engineering	2,000	500	1,000	1,000	500	1,000	500	1,000	1,000	1,000
Civil/architectural engineering	5,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000
Electrical/computer engineering	7,000	2,000	3,000	2,000	1,000	3,000	1,000	2,000	2,000	4,000
Industrial engineering	3,000	1,000	1,000	2,000	500	1,000	1,000	1,000	500	1,000
Mechanical engineering	4,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000
Other engineering	5,000	1,000	2,000	2,000	1,000	3,000	1,000	1,000	1,000	2,000
S&E-related fields	19,000	6,000	10,000	9,000	8,000	11,000	5,000	7,000	6,000	9,000
Health	16,000	4,000	9,000	8,000	7,000	9,000	5,000	6,000	5,000	8,000

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Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Other engineering	1,000	500	500	1,000	500	500	500	500	1,000	500
S&E-related fields	3,000	1,000	1,000	1,000	1,000	1,000	500	2,000	1,000	1,000
Health	2,000	500	1,000	1,000	500	1,000	500	1,000	500	1,000
Science/mathematics teacher education	1,000	S	500	1,000	S	500	S	S	S	S
Technology/technical fields	1,000	S	S	S	S	S	S	S	S	1,000
Other S&E-related fields	1,000	S	S	S	S	S	S	S	S	500
Non-S&E fields	7,000	2,000	3,000	3,000	1,000	3,000	2,000	2,000	2,000	3,000
Arts/humanities	3,000	1,000	1,000	1,000	1,000	1,000	S	1,000	S	1,000
Education, except science/mathematics teacher education	5,000	1,000	2,000	2,000	1,000	2,000	1,000	2,000	1,000	2,000
Management/administration	2,000	1,000	1,000	1,000	S	1,000	S	S	S	1,000
Sales/marketing	500	S	S	S	S	S	S	S	S	S
Social services/related	3,000	1,000	1,000	2,000	1,000	1,000	S	500	1,000	1,000
Other non-S&E fields	3,000	S	1,000	1,000	S	2,000	S	S	1,000	1,000

* = 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 through 2005, 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. See <http://sestat.nsf.gov/docs/location.html> for details on states included in each division. 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): 2006.