

TABLE A-23. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Race/ethnicity ^a							
		Sex		American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
		Male	Female						
All degree levels and fields ^b	1,000	1,000	500	3,000	500	500	1,000	1,000	2,000
S&E fields	500	500	500	6,000	500	1,000	2,000	1,000	5,000
Sciences	1,000	500	1,000	3,000	500	1,000	1,000	500	1,000
Biological/agricultural/environmental life sciences	1,000	500	1,000	8,000	2,000	3,000	3,000	500	2,000
Agricultural sciences	2,000	3,000	4,000	S	8,000	6,000	13,000	2,000	7,000
Biological sciences	500	2,000	1,000	21,000	2,000	2,000	3,000	1,000	2,000
Environmental life sciences	2,000	4,000	2,000	S	12,000	18,000	23,000	2,000	S
Computer/mathematical sciences	500	2,000	2,000	S	2,000	3,000	4,000	1,000	10,000
Computer/information sciences	2,000	1,000	2,000	S	4,000	4,000	4,000	2,000	9,000
Mathematics/statistics	3,000	3,000	3,000	S	4,000	6,000	3,000	1,000	24,000
Physical/related sciences	2,000	1,000	3,000	15,000	4,000	4,000	2,000	2,000	6,000
Chemistry, except biochemistry	2,000	3,000	1,000	S	3,000	6,000	2,000	2,000	12,000
Earth/atmospheric/ocean sciences	3,000	3,000	2,000	S	18,000	4,000	13,000	3,000	7,000
Physics/astronomy	3,000	2,000	7,000	S	11,000	4,000	17,000	3,000	15,000
Other physical sciences	6,000	8,000	5,000	S	12,000	11,000	9,000	10,000	S
Social/related sciences	1,000	2,000	1,000	5,000	1,000	500	2,000	1,000	1,000
Economics	1,000	4,000	3,000	S	4,000	4,000	4,000	4,000	12,000
Political/related sciences	2,000	2,000	2,000	S	4,000	1,000	7,000	2,000	5,000
Psychology	2,000	1,000	500	6,000	4,000	2,000	1,000	1,000	2,000
Sociology/anthropology	1,000	1,000	1,000	11,000	5,000	4,000	3,000	2,000	2,000
Other social sciences	1,000	3,000	1,000	S	6,000	2,000	1,000	2,000	11,000
Engineering	1,000	500	2,000	7,000	2,000	1,000	3,000	500	6,000
Aerospace/aeronautical/astronautical engineering	3,000	4,000	15,000	S	8,000	32,000	7,000	5,000	6,000
Chemical engineering	3,000	3,000	1,000	S	5,000	8,000	8,000	3,000	8,000
Civil/architectural engineering	2,000	500	2,000	S	2,000	4,000	6,000	1,000	20,000
Electrical/computer engineering	2,000	500	2,000	S	2,000	3,000	4,000	500	10,000
Industrial engineering	3,000	2,000	8,000	S	8,000	3,000	8,000	3,000	S
Mechanical engineering	2,000	1,000	5,000	S	1,000	8,000	3,000	500	12,000
Other engineering	2,000	2,000	4,000	S	3,000	14,000	6,000	1,000	4,000
S&E-related fields	500	1,000	1,000	8,000	500	2,000	2,000	500	2,000
Health	1,000	2,000	2,000	12,000	1,000	1,000	4,000	1,000	1,000
Science/mathematics teacher education	1,000	2,000	1,000	S	3,000	3,000	4,000	2,000	S
Technology/technical fields	2,000	2,000	6,000	S	4,000	5,000	4,000	3,000	10,000
Other S&E-related fields	3,000	4,000	3,000	S	2,000	10,000	6,000	3,000	S
Non-S&E fields	1,000	1,000	1,000	5,000	2,000	1,000	2,000	500	7,000
Arts/humanities	1,000	3,000	1,000	S	6,000	12,000	3,000	1,000	4,000
Education, except science/mathematics teacher education	1,000	500	1,000	10,000	4,000	2,000	1,000	1,000	2,000
Management/administration	1,000	1,000	1,000	44,000	4,000	2,000	6,000	1,000	15,000
Sales/marketing	4,000	8,000	6,000	S	9,000	28,000	26,000	5,000	S
Social services/related	1,000	2,000	1,000	S	2,000	2,000	1,000	2,000	11,000
Other non-S&E fields	3,000	3,000	2,000	S	3,000	4,000	8,000	2,000	14,000
Bachelor's degrees	500	500	500	3,000	500	1,000	2,000	500	3,000
S&E fields	500	1,000	1,000	7,000	1,000	2,000	3,000	500	3,000
Sciences	500	1,000	500	3,000	2,000	500	1,000	1,000	1,000

TABLE A-23. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Race/ethnicity ^a							
		Sex		American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
		Male	Female						
Biological/agricultural/environmental life sciences	1,000	2,000	1,000	12,000	2,000	2,000	3,000	1,000	3,000
Agricultural sciences	3,000	3,000	5,000	S	12,000	2,000	6,000	3,000	S
Biological sciences	1,000	2,000	1,000	S	2,000	3,000	3,000	1,000	5,000
Environmental life sciences	2,000	4,000	2,000	S	S	S	25,000	2,000	S
Computer/mathematical sciences	500	2,000	5,000	S	3,000	2,000	2,000	2,000	8,000
Computer/information sciences	2,000	1,000	2,000	S	500	3,000	6,000	2,000	9,000
Mathematics/statistics	3,000	2,000	3,000	S	2,000	5,000	7,000	4,000	23,000
Physical/related sciences	1,000	3,000	1,000	S	3,000	4,000	4,000	3,000	8,000
Chemistry, except biochemistry	1,000	3,000	4,000	S	3,000	3,000	4,000	4,000	9,000
Earth/atmospheric/ocean sciences	2,000	3,000	3,000	S	S	S	5,000	1,000	S
Physics/astronomy	6,000	3,000	11,000	S	10,000	11,000	18,000	7,000	S
Other physical sciences	6,000	14,000	4,000	S	S	17,000	S	13,000	S
Social/related sciences	500	2,000	1,000	3,000	2,000	2,000	1,000	1,000	2,000
Economics	3,000	4,000	2,000	S	5,000	7,000	3,000	3,000	13,000
Political/related sciences	2,000	4,000	3,000	S	4,000	1,000	8,000	3,000	5,000
Psychology	500	3,000	1,000	S	3,000	2,000	1,000	500	6,000
Sociology/anthropology	1,000	2,000	1,000	S	3,000	4,000	3,000	2,000	2,000
Other social sciences	2,000	4,000	2,000	S	7,000	2,000	2,000	2,000	14,000
Engineering	500	1,000	3,000	6,000	1,000	3,000	1,000	1,000	4,000
Aerospace/aeronautical/astronautical engineering	3,000	3,000	11,000	S	10,000	S	6,000	5,000	S
Chemical engineering	3,000	3,000	3,000	S	5,000	8,000	12,000	3,000	S
Civil/architectural engineering	2,000	3,000	2,000	S	3,000	3,000	5,000	2,000	19,000
Electrical/computer engineering	1,000	500	5,000	S	1,000	2,000	4,000	1,000	11,000
Industrial engineering	2,000	3,000	7,000	S	8,000	14,000	12,000	4,000	S
Mechanical engineering	2,000	2,000	3,000	S	4,000	7,000	3,000	3,000	10,000
Other engineering	2,000	2,000	3,000	S	5,000	6,000	6,000	2,000	S
S&E-related fields	500	1,000	1,000	2,000	2,000	2,000	2,000	1,000	7,000
Health	1,000	2,000	500	6,000	2,000	1,000	3,000	1,000	9,000
Science/mathematics teacher education	2,000	3,000	3,000	S	S	4,000	3,000	2,000	S
Technology/technical fields	2,000	2,000	4,000	S	7,000	5,000	3,000	3,000	S
Other S&E-related fields	4,000	3,000	3,000	S	3,000	9,000	7,000	4,000	S
Non-S&E fields	1,000	2,000	1,000	S	5,000	3,000	3,000	1,000	5,000
Arts/humanities	2,000	4,000	2,000	S	9,000	12,000	1,000	2,000	S
Education, except science/mathematics teacher education	1,000	1,000	2,000	S	4,000	3,000	4,000	1,000	S
Management/administration	500	2,000	2,000	S	5,000	4,000	5,000	2,000	17,000
Sales/marketing	4,000	6,000	7,000	S	S	S	S	4,000	S
Social services/related	3,000	4,000	6,000	S	S	S	S	2,000	S
Other non-S&E fields	2,000	2,000	1,000	S	9,000	2,000	8,000	2,000	S
Master's degrees	500	1,000	500	8,000	2,000	2,000	2,000	500	6,000
S&E fields	2,000	1,000	1,000	8,000	1,000	2,000	4,000	1,000	9,000
Sciences	1,000	1,000	1,000	12,000	3,000	3,000	3,000	2,000	4,000
Biological/agricultural/environmental life sciences	1,000	2,000	3,000	S	7,000	3,000	8,000	2,000	10,000
Agricultural sciences	2,000	3,000	10,000	S	S	S	S	5,000	S
Biological sciences	1,000	2,000	2,000	S	3,000	3,000	14,000	1,000	S
Environmental life sciences	4,000	5,000	6,000	S	S	S	S	5,000	S

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Level and field of highest degree	Employed scientists and engineers	Race/ethnicity ^a								
		Sex		American Indian/Alaska Native	Asian	Black	Hispanic	White	Other	
		Male	Female							
Computer/mathematical sciences	1,000	1,000	4,000	S	2,000	6,000	3,000	3,000	3,000	
Computer/information sciences	2,000	3,000	4,000	S	1,000	2,000	4,000	3,000	6,000	
Mathematics/statistics	3,000	2,000	3,000	S	7,000	6,000	7,000	4,000	S	
Physical/related sciences	2,000	3,000	5,000	S	5,000	6,000	12,000	3,000	S	
Chemistry, except biochemistry	3,000	3,000	4,000	S	6,000	S	S	3,000	S	
Earth/atmospheric/ocean sciences	2,000	3,000	6,000	S	S	S	S	2,000	S	
Physics/astronomy	5,000	5,000	21,000	S	5,000	S	S	6,000	S	
Other physical sciences	16,000	S	S	S	S	S	S	17,000	S	
Social/related sciences	2,000	3,000	1,000	S	6,000	3,000	3,000	2,000	7,000	
Economics	9,000	10,000	10,000	S	7,000	7,000	S	7,000	S	
Political/related sciences	4,000	3,000	6,000	S	2,000	11,000	14,000	5,000	S	
Psychology	1,000	4,000	1,000	S	5,000	3,000	4,000	2,000	10,000	
Sociology/anthropology	3,000	6,000	3,000	S	S	10,000	5,000	4,000	S	
Other social sciences	5,000	10,000	5,000	S	11,000	9,000	13,000	4,000	S	
Engineering	500	1,000	2,000	S	2,000	6,000	4,000	2,000	6,000	
Aerospace/aeronautical/astronautical engineering	3,000	2,000	4,000	S	21,000	S	S	2,000	S	
Chemical engineering	8,000	5,000	2,000	S	11,000	S	1,000	9,000	S	
Civil/architectural engineering	2,000	2,000	5,000	S	3,000	11,000	26,000	3,000	S	
Electrical/computer engineering	2,000	1,000	3,000	S	3,000	8,000	3,000	2,000	S	
Industrial engineering	3,000	3,000	12,000	S	6,000	S	5,000	4,000	S	
Mechanical engineering	2,000	2,000	5,000	S	4,000	S	7,000	2,000	S	
Other engineering	3,000	3,000	3,000	S	1,000	10,000	6,000	4,000	S	
S&E-related fields	2,000	3,000	1,000	S	3,000	2,000	5,000	1,000	8,000	
Health	3,000	3,000	500	S	9,000	2,000	7,000	2,000	12,000	
Science/mathematics teacher education	2,000	3,000	2,000	S	S	5,000	14,000	2,000	S	
Technology/technical fields	3,000	3,000	10,000	S	5,000	S	S	4,000	S	
Other S&E-related fields	3,000	6,000	2,000	S	7,000	S	S	5,000	S	
Non-S&E fields	500	2,000	1,000	8,000	2,000	2,000	3,000	500	10,000	
Arts/humanities	3,000	5,000	5,000	S	9,000	S	7,000	4,000	S	
Education, except science/mathematics teacher education	1,000	1,000	1,000	S	5,000	3,000	2,000	1,000	5,000	
Management/administration	1,000	3,000	3,000	S	2,000	6,000	5,000	2,000	20,000	
Sales/marketing	6,000	8,000	5,000	S	7,000	S	S	7,000	S	
Social services/related	1,000	1,000	2,000	S	3,000	2,000	1,000	2,000	S	
Other non-S&E fields	2,000	5,000	3,000	S	6,000	5,000	8,000	4,000	S	
Doctorate degrees	1,000	500	500	5,000	2,000	2,000	2,000	1,000	4,000	
S&E fields	1,000	1,000	500	6,000	2,000	4,000	2,000	500	4,000	
Sciences	500	1,000	500	5,000	500	4,000	1,000	1,000	4,000	
Biological/agricultural/environmental life sciences	500	1,000	2,000	S	5,000	7,000	1,000	1,000	8,000	
Agricultural sciences	1,000	2,000	6,000	S	2,000	13,000	1,000	2,000	S	
Biological sciences	500	500	3,000	S	3,000	10,000	6,000	2,000	11,000	
Environmental life sciences	1,000	2,000	3,000	S	7,000	S	S	2,000	S	
Computer/mathematical sciences	2,000	2,000	9,000	S	2,000	19,000	18,000	3,000	39,000	
Computer/information sciences	6,000	6,000	5,000	S	6,000	14,000	1,000	8,000	S	
Mathematics/statistics	3,000	2,000	11,000	S	2,000	3,000	6,000	2,000	S	
Physical/related sciences	1,000	500	3,000	S	3,000	1,000	4,000	1,000	18,000	
Chemistry, except biochemistry	1,000	500	3,000	S	4,000	1,000	10,000	1,000	13,000	

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Level and field of highest degree	Employed scientists and engineers	Race/ethnicity ^a							
		Sex		American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
		Male	Female						
Earth/atmospheric/ocean sciences	3,000	3,000	2,000	S	11,000	S	2,000	3,000	S
Physics/astronomy	2,000	2,000	4,000	S	5,000	23,000	9,000	3,000	22,000
Other physical sciences	29,000	36,000	14,000	S	S	S	S	31,000	S
Social/related sciences	1,000	1,000	500	3,000	3,000	2,000	2,000	1,000	2,000
Economics	3,000	3,000	5,000	S	6,000	2,000	5,000	5,000	S
Political/related sciences	1,000	3,000	3,000	S	6,000	8,000	8,000	4,000	S
Psychology	500	2,000	1,000	S	7,000	4,000	3,000	2,000	6,000
Sociology/anthropology	500	1,000	3,000	S	3,000	5,000	4,000	500	6,000
Other social sciences	3,000	5,000	2,000	S	11,000	2,000	9,000	2,000	S
Engineering	2,000	2,000	500	S	1,000	6,000	6,000	2,000	5,000
Aerospace/aeronautical/astronautical engineering	8,000	9,000	S	S	1,000	S	S	7,000	S
Chemical engineering	4,000	3,000	3,000	S	5,000	14,000	24,000	5,000	S
Civil/architectural engineering	1,000	1,000	3,000	S	3,000	4,000	11,000	3,000	S
Electrical/computer engineering	500	500	7,000	S	500	11,000	2,000	2,000	6,000
Industrial engineering	5,000	6,000	4,000	S	6,000	S	S	8,000	S
Mechanical engineering	1,000	2,000	5,000	S	3,000	S	18,000	4,000	S
Other engineering	2,000	2,000	5,000	S	1,000	7,000	12,000	2,000	S
S&E-related fields	2,000	9,000	6,000	S	10,000	12,000	30,000	3,000	10,000
Health	2,000	7,000	5,000	S	10,000	21,000	34,000	1,000	11,000
Science/mathematics teacher education	6,000	4,000	2,000	S	S	S	S	6,000	S
Technology/technical fields	4,000	4,000	S	S	S	S	S	S	S
Other S&E-related fields	S	S	S	S	S	S	S	S	S
Non-S&E fields	2,000	4,000	3,000	S	6,000	2,000	4,000	2,000	S
Arts/humanities	5,000	1,000	3,000	S	S	S	S	5,000	S
Education, except science/mathematics teacher education	3,000	10,000	4,000	S	S	4,000	3,000	5,000	S
Management/administration	9,000	9,000	S	S	9,000	S	S	11,000	S
Sales/marketing	S	S	S	S	S	S	S	S	S
Social services/related	6,000	6,000	5,000	S	S	S	S	10,000	S
Other non-S&E fields	10,000	18,000	7,000	S	S	S	S	7,000	S

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

^a "Other" includes Native Hawaiian/Other Pacific Islander, and non-Hispanic respondents reporting 2 or more races.

^b Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003.

See <http://sestat.nsf.gov/docs/ed03maj.html> for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500 and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

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