

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	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 occupations ^a	1,000	1,000	1,000	3,000	500	1,000	1,000	1,000	500	1,000	1,000
S&E occupations	1,000	1,000	1,000	1,000	3,000	2,000	1,000	1,000	1,000	1,000	1,000
Scientists	1,000	500	500	4,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Biological/agricultural/other life scientists	2,000	3,000	3,000	22,000	3,000	1,000	2,000	4,000	1,000	1,000	2,000
Agricultural/food scientists	2,000	2,000	3,000	S	S	2,000	2,000	S	4,000	7,000	10,000
Biological/medical scientists	2,000	4,000	2,000	17,000	5,000	2,000	3,000	S	1,000	1,000	3,000
Environmental life scientists	4,000	10,000	11,000	S	4,000	2,000	3,000	S	3,000	5,000	6,000
Postsecondary teachers-life/related sciences	3,000	S	S	S	S	2,000	3,000	4,000	S	S	S
Computer/mathematical scientists	1,000	1,000	1,000	3,000	3,000	1,000	2,000	2,000	2,000	2,000	2,000
Computer/information scientists	500	1,000	1,000	4,000	3,000	1,000	2,000	4,000	2,000	3,000	2,000
Mathematical scientists	6,000	4,000	5,000	51,000	29,000	4,000	12,000	S	7,000	7,000	5,000
Postsecondary teachers-computer/mathematical sciences	1,000	S	S	S	S	2,000	3,000	1,000	S	S	S
Physical/related scientists	2,000	3,000	2,000	4,000	5,000	1,000	1,000	4,000	4,000	3,000	2,000
Chemists, except biochemists	1,000	3,000	3,000	7,000	22,000	4,000	4,000	S	3,000	8,000	2,000
Earth/atmospheric/ocean scientists	3,000	5,000	7,000	3,000	22,000	1,000	1,000	S	5,000	3,000	3,000
Physicists/astronomers	6,000	4,000	5,000	S	6,000	4,000	4,000	S	5,000	5,000	S
Postsecondary teachers-physical/related sciences	2,000	S	S	S	S	3,000	4,000	4,000	S	S	S
Other physical/related scientists	5,000	1,000	2,000	S	5,000	500	500	S	6,000	4,000	5,000
Social/related scientists	500	3,000	4,000	1,000	1,000	1,000	1,000	1,000	3,000	4,000	4,000
Economists	5,000	12,000	18,000	30,000	5,000	16,000	15,000	S	5,000	7,000	7,000
Political/related scientists	2,000	6,000	S	S	16,000	6,000	6,000	S	3,000	56,000	S
Postsecondary teachers-social/related sciences	2,000	S	S	S	S	1,000	1,000	5,000	S	S	S
Psychologists	1,000	4,000	1,000	8,000	4,000	1,000	5,000	1,000	5,000	5,000	5,000
Sociologists/anthropologists	6,000	13,000	24,000	S	26,000	6,000	5,000	S	21,000	11,000	6,000
Other social/related scientists	2,000	5,000	7,000	18,000	1,000	7,000	9,000	S	5,000	10,000	6,000
Engineers	1,000	1,000	500	6,000	2,000	4,000	2,000	7,000	2,000	2,000	2,000
Aerospace/aeronautical/astronautical engineers	3,000	2,000	1,000	S	19,000	46,000	35,000	S	5,000	5,000	S
Chemical engineers	2,000	2,000	3,000	S	S	2,000	2,000	S	10,000	14,000	S
Civil/architectural/sanitary engineers	2,000	2,000	3,000	8,000	S	17,000	15,000	S	3,000	4,000	1,000
Electrical/computer hardware engineers	1,000	500	500	12,000	5,000	14,000	10,000	S	3,000	2,000	4,000
Industrial engineers	2,000	2,000	2,000	S	S	39,000	39,000	S	3,000	4,000	S
Mechanical engineers	1,000	2,000	2,000	11,000	5,000	13,000	13,000	S	5,000	7,000	5,000
Postsecondary teachers-engineering	2,000	S	S	S	S	2,000	2,000	3,000	S	S	S
Other engineers	2,000	2,000	3,000	8,000	8,000	5,000	5,000	S	3,000	2,000	4,000
S&E-related occupations	1,000	500	1,000	5,000	500	2,000	1,000	1,000	1,000	2,000	1,000

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry						Educational institution			Government		
		Business/industry				Total	4-year college/university	Other	Government				
		Total	Profit	Self-employed	Nonprofit				Total	Federal	State/local		
Postsecondary teachers-social/related sciences	1,000	S	S	S	S	1,000	1,000	S	S	S	S		
Psychologists	4,000	S	S	S	S	5,000	S	S	S	S	S		
Sociologists/anthropologists	6,000	S	S	S	S	S	S	S	S	S	S		
Other social/related scientists	4,000	5,000	8,000	S	3,000	S	S	S	4,000	S	4,000		
Engineers	500	500	500	3,000	7,000	7,000	1,000	S	2,000	1,000	1,000		
Aerospace/aeronautical/astronautical engineers	2,000	1,000	1,000	S	S	S	S	S	5,000	5,000	S		
Chemical engineers	2,000	3,000	3,000	S	S	1,000	1,000	S	S	S	S		
Civil/architectural/sanitary engineers	1,000	2,000	2,000	9,000	S	S	S	S	2,000	3,000	2,000		
Electrical/computer hardware engineers	500	500	500	9,000	11,000	10,000	18,000	S	3,000	3,000	12,000		
Industrial engineers	1,000	1,000	2,000	S	S	S	S	S	2,000	S	S		
Mechanical engineers	1,000	2,000	1,000	17,000	S	18,000	20,000	S	2,000	2,000	7,000		
Postsecondary teachers-engineering	2,000	S	S	S	S	2,000	2,000	S	S	S	S		
Other engineers	2,000	1,000	1,000	11,000	S	3,000	3,000	S	4,000	5,000	2,000		
S&E-related occupations	1,000	500	2,000	3,000	1,000	500	1,000	1,000	2,000	1,000	1,000		
Health-related occupations	1,000	1,000	1,000	2,000	1,000	2,000	2,000	3,000	2,000	2,000	2,000		
S&E managers	3,000	3,000	3,000	S	4,000	5,000	2,000	S	4,000	3,000	7,000		
S&E precollege teachers	1,000	S	S	S	S	1,000	S	1,000	S	S	S		
S&E technicians/technologists	2,000	2,000	2,000	4,000	4,000	2,000	2,000	S	4,000	5,000	3,000		
Other S&E-related occupations	3,000	3,000	3,000	6,000	S	S	S	S	3,000	S	S		
Non-S&E occupations	1,000	1,000	500	1,000	1,000	1,000	2,000	1,000	1,000	4,000	1,000		
Art/humanities/related occupations	5,000	3,000	4,000	6,000	8,000	14,000	S	S	12,000	S	S		
Management-related occupations	1,000	2,000	3,000	5,000	3,000	2,000	2,000	9,000	4,000	3,000	3,000		
Non-S&E managers	3,000	2,000	1,000	S	10,000	10,000	S	5,000	7,000	3,000	3,000		
Non-S&E postsecondary teachers	5,000	S	S	S	S	7,000	11,000	7,000	S	S	S		
Non-S&E precollege/other teachers	2,000	3,000	S	S	S	2,000	S	2,000	S	S	S		
Sales/marketing occupations	1,000	1,000	2,000	4,000	4,000	S	S	S	S	S	S		
Social services/related occupations	500	2,000	2,000	S	1,000	1,000	3,000	3,000	2,000	S	2,000		
Other non-S&E occupations	500	1,000	1,000	3,000	1,000	1,000	2,000	4,000	2,000	4,000	1,000		
Master's degrees, all occupations	500	500	2,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000		
S&E occupations	500	1,000	500	3,000	3,000	2,000	2,000	2,000	3,000	3,000	1,000		
Scientists	500	500	2,000	6,000	2,000	1,000	2,000	2,000	3,000	3,000	1,000		
Biological/agricultural/other life scientists	1,000	4,000	3,000	S	14,000	2,000	1,000	5,000	1,000	4,000	3,000		
Agricultural/food scientists	6,000	9,000	3,000	S	S	6,000	6,000	S	S	S	S		
Biological/medical scientists	2,000	4,000	4,000	S	19,000	4,000	4,000	S	2,000	2,000	4,000		
Environmental life scientists	2,000	S	S	S	S	S	S	S	4,000	S	S		
Postsecondary teachers-life/related sciences	2,000	S	S	S	S	2,000	10,000	4,000	S	S	S		

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self- employed	Nonprofit	Total	4-year college/ university	Other	Total	Federal	State/ local
Computer/mathematical scientists	1,000	500	1,000	11,000	2,000	3,000	4,000	4,000	4,000	4,000	2,000
Computer/information scientists	2,000	500	1,000	10,000	2,000	3,000	3,000	8,000	4,000	5,000	2,000
Mathematical scientists	3,000	4,000	5,000	S	S	16,000	4,000	S	7,000	15,000	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	S	S	S	2,000	3,000	3,000	S	S	S
Physical/related scientists	4,000	5,000	4,000	S	18,000	3,000	1,000	4,000	3,000	3,000	2,000
Chemists, except biochemists	1,000	6,000	5,000	S	S	2,000	2,000	S	4,000	S	S
Earth/atmospheric/ocean scientists	6,000	4,000	2,000	S	S	15,000	15,000	S	2,000	4,000	4,000
Physicists/astronomers	10,000	19,000	23,000	S	S	1,000	1,000	S	S	S	S
Postsecondary teachers-physical/related sciences	10,000	S	S	S	S	11,000	5,000	4,000	S	S	S
Other physical/related scientists	7,000	8,000	7,000	S	S	S	S	S	6,000	S	4,000
Social/related scientists	3,000	1,000	11,000	5,000	4,000	1,000	3,000	2,000	5,000	6,000	7,000
Economists	7,000	16,000	38,000	S	S	S	S	S	6,000	6,000	S
Political/related scientists	10,000	S	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	5,000	S	S	S	S	4,000	2,000	7,000	S	S	S
Psychologists	1,000	1,000	3,000	5,000	3,000	2,000	4,000	1,000	4,000	S	2,000
Sociologists/anthropologists	10,000	8,000	S	S	S	1,000	1,000	S	S	S	S
Other social/related scientists	7,000	16,000	8,000	S	9,000	9,000	11,000	S	4,000	S	6,000
Engineers	1,000	500	500	10,000	6,000	9,000	2,000	S	2,000	3,000	2,000
Aerospace/aeronautical/astronautical engineers	4,000	5,000	2,000	S	S	26,000	26,000	S	6,000	6,000	S
Chemical engineers	3,000	2,000	2,000	S	S	1,000	1,000	S	S	S	S
Civil/architectural/sanitary engineers	2,000	3,000	3,000	16,000	S	S	S	S	4,000	7,000	3,000
Electrical/computer hardware engineers	1,000	2,000	2,000	S	S	3,000	3,000	S	6,000	6,000	S
Industrial engineers	3,000	5,000	2,000	S	S	S	S	S	S	S	S
Mechanical engineers	3,000	3,000	3,000	S	S	500	500	S	3,000	3,000	S
Postsecondary teachers-engineering	5,000	S	S	S	S	5,000	8,000	S	S	S	S
Other engineers	2,000	3,000	3,000	13,000	S	9,000	5,000	S	4,000	4,000	4,000
S&E-related occupations	1,000	2,000	3,000	4,000	2,000	1,000	4,000	1,000	2,000	2,000	2,000
Health-related occupations	3,000	2,000	2,000	7,000	2,000	1,000	4,000	1,000	3,000	4,000	2,000
S&E managers	2,000	2,000	2,000	S	4,000	4,000	4,000	S	4,000	9,000	5,000
S&E precollege teachers	1,000	S	S	S	S	1,000	S	1,000	S	S	S
S&E technicians/technologists	2,000	4,000	4,000	S	8,000	2,000	7,000	S	9,000	S	11,000
Other S&E-related occupations	3,000	3,000	6,000	5,000	S	S	S	S	S	S	S
Non-S&E occupations	1,000	3,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	2,000	1,000
Art/humanities/related occupations	2,000	6,000	12,000	5,000	S	S	S	S	S	S	S
Management-related occupations	2,000	2,000	2,000	4,000	4,000	5,000	2,000	10,000	1,000	5,000	1,000
Non-S&E managers	3,000	5,000	4,000	S	4,000	2,000	5,000	2,000	4,000	9,000	3,000

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Educational institution									
		Business/industry				4-year college/university			Government		
		Total	Profit	Self-employed	Nonprofit	Total	Other	Total	Federal	State/local	
Non-S&E postsecondary teachers	2,000	S	S	S	S	3,000	4,000	5,000	S	S	S
Non-S&E precollege/other teachers	1,000	15,000	S	S	S	1,000	S	2,000	S	S	S
Sales/marketing occupations	5,000	5,000	4,000	6,000	S	S	S	S	S	S	S
Social services/related occupations	1,000	2,000	4,000	5,000	2,000	2,000	3,000	2,000	1,000	6,000	2,000
Other non-S&E occupations	2,000	2,000	2,000	4,000	4,000	1,000	2,000	2,000	6,000	5,000	4,000
Doctorate degrees, all occupations	1,000	1,000	1,000	2,000	2,000	1,000	1,000	4,000	3,000	2,000	3,000
S&E occupations	500	1,000	1,000	3,000	2,000	500	1,000	1,000	2,000	1,000	2,000
Scientists	1,000	500	500	4,000	5,000	500	500	1,000	1,000	2,000	2,000
Biological/agricultural/other life scientists	1,000	1,000	1,000	8,000	6,000	2,000	2,000	4,000	4,000	2,000	3,000
Agricultural/food scientists	1,000	3,000	2,000	S	S	3,000	4,000	S	6,000	7,000	S
Biological/medical scientists	1,000	1,000	2,000	12,000	6,000	2,000	2,000	S	4,000	3,000	3,000
Environmental life scientists	7,000	S	S	S	S	S	S	S	9,000	10,000	S
Postsecondary teachers-life/related sciences	2,000	S	S	S	S	2,000	1,000	4,000	S	S	S
Computer/mathematical scientists	1,000	3,000	3,000	22,000	7,000	3,000	2,000	5,000	4,000	3,000	11,000
Computer/information scientists	1,000	2,000	3,000	32,000	9,000	2,000	4,000	S	4,000	6,000	12,000
Mathematical scientists	3,000	5,000	2,000	S	8,000	4,000	4,000	S	5,000	6,000	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	S	S	S	2,000	3,000	5,000	S	S	S
Physical/related scientists	2,000	1,000	1,000	11,000	6,000	1,000	1,000	2,000	3,000	3,000	2,000
Chemists, except biochemists	1,000	2,000	2,000	15,000	8,000	6,000	5,000	S	6,000	6,000	3,000
Earth/atmospheric/ocean scientists	1,000	3,000	4,000	S	15,000	4,000	4,000	S	4,000	5,000	6,000
Physicists/astronomers	3,000	4,000	5,000	S	4,000	5,000	5,000	S	2,000	3,000	S
Postsecondary teachers-physical/related sciences	1,000	S	S	S	S	1,000	1,000	2,000	S	S	S
Other physical/related scientists	3,000	17,000	11,000	S	S	30,000	30,000	S	8,000	9,000	S
Social/related scientists	1,000	4,000	5,000	5,000	1,000	500	500	2,000	1,000	2,000	1,000
Economists	2,000	9,000	4,000	S	5,000	8,000	9,000	S	6,000	6,000	S
Political/related scientists	5,000	15,000	S	S	S	2,000	2,000	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	S	S	S	S	2,000	500	5,000	S	S	S
Psychologists	1,000	2,000	4,000	4,000	1,000	1,000	1,000	4,000	1,000	2,000	1,000
Sociologists/anthropologists	1,000	2,000	7,000	S	1,000	4,000	5,000	S	2,000	3,000	S
Other social/related scientists	500	9,000	7,000	S	20,000	11,000	5,000	S	5,000	7,000	5,000
Engineers	2,000	1,000	1,000	10,000	5,000	2,000	2,000	S	3,000	1,000	6,000
Aerospace/aeronautical/astronautical engineers	7,000	8,000	9,000	S	S	S	S	S	4,000	4,000	S
Chemical engineers	3,000	2,000	3,000	S	S	22,000	22,000	S	31,000	38,000	S
Civil/architectural/sanitary engineers	2,000	2,000	2,000	S	S	21,000	21,000	S	7,000	S	4,000
Electrical/computer hardware engineers	1,000	3,000	4,000	17,000	7,000	14,000	14,000	S	10,000	9,000	S

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Industrial engineers	30,000	31,000	35,000	S	S	S	S	S	S	S	S
Mechanical engineers	2,000	1,000	1,000	S	S	11,000	13,000	S	4,000	4,000	S
Postsecondary teachers-engineering	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Other engineers	1,000	2,000	3,000	9,000	14,000	13,000	14,000	S	2,000	2,000	S
S&E-related occupations	4,000	5,000	6,000	23,000	19,000	2,000	2,000	6,000	10,000	4,000	1,000
Health-related occupations	3,000	20,000	19,000	33,000	5,000	4,000	5,000	19,000	4,000	11,000	1,000
S&E managers	2,000	4,000	2,000	S	20,000	7,000	8,000	S	5,000	5,000	4,000
S&E precollege teachers	6,000	S	S	S	S	7,000	S	7,000	S	S	S
S&E technicians/technologists	7,000	7,000	9,000	S	S	8,000	6,000	S	19,000	S	S
Other S&E-related occupations	1,000	S	S	S	S	S	S	S	S	S	S
Non-S&E occupations	4,000	7,000	7,000	12,000	4,000	3,000	4,000	7,000	8,000	9,000	5,000
Art/humanities/related occupations	13,000	22,000	18,000	9,000	14,000	3,000	3,000	S	S	S	S
Management-related occupations	3,000	9,000	4,000	25,000	1,000	7,000	8,000	S	21,000	42,000	8,000
Non-S&E managers	7,000	8,000	2,000	36,000	12,000	4,000	6,000	9,000	6,000	4,000	2,000
Non-S&E postsecondary teachers	3,000	S	S	S	S	2,000	2,000	4,000	S	S	S
Non-S&E precollege/other teachers	11,000	S	S	S	S	8,000	S	8,000	S	S	S
Sales/marketing occupations	23,000	24,000	31,000	13,000	S	S	S	S	S	S	S
Social services/related occupations	8,000	12,000	7,000	3,000	14,000	7,000	11,000	9,000	1,000	S	S
Other non-S&E occupations	4,000	8,000	12,000	9,000	8,000	23,000	26,000	S	34,000	12,000	31,000

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. 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.