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**Table 1a. Standard errors on distribution of doctoral scientists and engineers,
by field of doctorate: 2001**

Field of doctorate	Number	Percent
Total.....	837.1	N/A
Sciences.....	731.5	0.1
Computer and mathematical sciences.....	249.2	0.0
Computer/information sciences.....	125.7	0.0
Mathematical sciences.....	269.1	0.0
Biological and agricultural sciences.....	401.8	0.1
Agricultural/food sciences.....	374.5	0.1
Biological sciences.....	290.8	0.0
Environmental life sciences.....	312.7	0.0
Health sciences.....	121.0	0.0
Physical and related sciences.....	386.9	0.1
Chemistry except biochemistry.....	238.3	0.0
Earth/atmospheric/ocean sciences.....	117.6	0.0
Physics and astronomy.....	254.4	0.0
Social sciences.....	468.5	0.1
Economics.....	328.8	0.0
Political and related sciences.....	454.1	0.1
Sociology.....	375.2	0.1
Other social sciences.....	587.4	0.1
Psychology.....	218.6	0.0
Engineering.....	410.7	0.1
Aerospace/aeronautical engineering.....	357.4	0.1
Chemical engineering.....	597.4	0.1
Civil engineering.....	439.7	0.1
Electrical/computer engineering.....	317.9	0.0
Materials/metallurgical engineering.....	496.1	0.1
Mechanical engineering.....	610.2	0.1
Other engineering.....	652.1	0.1

KEY: N/A= Not applicable

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 2a. Standard errors on demographic characteristics of doctoral scientists and engineers, by field of doctorate: 2001

Demographic characteristic	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total (number).....	837.1	125.7	269.1	401.8	121.0	386.9	468.5	218.6	410.7
Year of doctorate:	Percent								
Pre-1970.....	0.1	S	0.6	0.2	0.3	0.3	0.4	0.2	0.4
1970-1979.....	0.1	S	0.8	0.3	0.6	0.4	0.6	0.3	0.4
1980-1984.....	0.0	0.7	0.4	0.2	0.5	0.2	0.3	0.3	0.3
1985-1989.....	0.0	1.0	0.5	0.2	0.6	0.2	0.3	0.3	0.2
1990-1992.....	0.0	0.9	0.5	0.2	0.4	0.2	0.3	0.2	0.2
1993-1994.....	0.0	0.7	0.4	0.2	0.4	0.1	0.2	0.2	0.2
1995-1996.....	0.0	0.8	0.4	0.1	0.4	0.1	0.2	0.2	0.2
1997-1998.....	0.0	0.7	0.4	0.1	0.4	0.1	0.2	0.2	0.2
1999-2000.....	0.0	0.6	0.3	0.1	0.4	0.1	0.2	0.2	0.1
Sex:									
Male.....	0.1	0.4	0.3	0.1	0.4	0.1	0.2	0.2	0.1
Female.....	0.1	0.4	0.3	0.1	0.4	0.1	0.2	0.2	0.1
Race/ethnicity:									
White ¹	0.2	1.2	0.8	0.3	0.6	0.3	0.4	0.3	0.4
Black.....	0.1	S	S	0.1	0.3	0.1	0.2	0.1	0.1
Asian/Pacific Islander.....	0.2	1.4	0.9	0.3	0.6	0.3	0.3	0.2	0.4
Hispanic.....	0.1	S	0.4	0.1	0.3	0.1	0.2	0.2	0.2
American Indian/Alaskan Native.....	--	S	S	S	S	S	S	S	S
Age:									
Under 35.....	0.1	1.1	0.6	0.2	0.6	0.2	0.3	0.2	0.3
35-39.....	0.1	1.3	0.7	0.3	0.7	0.3	0.4	0.3	0.4
40-44.....	0.1	1.5	0.7	0.3	0.7	0.3	0.4	0.3	0.3
45-49.....	0.2	1.3	0.7	0.3	0.8	0.3	0.5	0.4	0.4
50-54.....	0.1	1.2	0.8	0.3	0.8	0.3	0.6	0.4	0.3
55-59.....	0.2	0.9	0.7	0.3	0.9	0.4	0.6	0.3	0.5
60-64.....	0.1	S	0.6	0.3	0.7	0.3	0.5	0.3	0.4
65-75.....	0.1	S	0.6	0.2	0.7	0.4	0.4	0.3	0.4
Citizenship status:									
U.S. citizen.....	0.1	1.4	0.6	0.2	0.5	0.3	0.4	0.2	0.4
Native born.....	0.1	1.5	0.8	0.3	0.5	0.3	0.4	0.2	0.4
Naturalized.....	0.1	1.5	0.8	0.3	0.5	0.3	0.4	0.2	0.4
Non-U.S. citizen.....	0.1	1.4	0.6	0.2	0.5	0.3	0.4	0.2	0.4
Permanent U.S. resident.....	0.9	3.5	3.9	1.9	4.2	2.0	2.3	4.5	1.5
Temporary U.S. resident.....	0.9	3.5	3.9	1.9	4.2	2.0	2.3	S	1.5

¹ 'Other' race included with 'White.'

KEY: -- = Estimate is less than 0.5 percent and estimated weighted cases >=500.

S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients.

**Table 3a. Standard errors on demographic characteristics of doctoral scientists and engineers,
by years since doctorate: 2001**

Demographic characteristic	Years since doctorate				
	Total	5 or less	6-15	16-25	More than 25
Total (number).....	837.1	332.7	492.4	334.1	423.2
Sex:			Percent		
Male.....	0.1	0.3	0.2	0.3	0.1
Female.....	0.1	0.3	0.2	0.3	0.1
Race/ethnicity:					
White ¹	0.2	0.5	0.3	0.3	0.3
Black.....	0.1	0.2	0.2	0.1	0.1
Asian/Pacific Islander.....	0.2	0.4	0.3	0.3	0.2
Hispanic.....	0.1	0.2	0.2	0.1	0.1
American Indian/Alaskan Native.....	--	S	--	S	--
Citizenship status:					
U.S. citizen.....	0.1	0.4	0.3	0.2	0.1
Non-U.S. citizen.....	0.1	0.4	0.3	0.2	0.1

¹ 'Other' race included with 'White.'

KEY: -- = Estimate is less than 0.5 percent and estimated weighted cases >=500.

S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 4a. Standard errors on labor force status of doctoral scientists and engineers, by field of doctorate: 2001

Labor force status	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total (number).....	837.1	249.2	401.8	121.0	386.9	468.5	218.6	410.7
				Percent				
Employed full-time ¹	0.2	0.8	0.4	1.0	0.5	0.6	0.6	0.5
Employed part-time ¹	0.2	0.6	0.3	0.9	0.3	0.5	0.5	0.3
Unemployed, seeking work.....	0.1	0.3	0.1	S	0.1	0.2	0.1	0.2
Retired.....	0.2	0.5	0.3	0.6	0.4	0.5	0.3	0.4
Not employed, not seeking work.....	0.1	0.3	0.2	S	0.2	0.2	0.3	0.2

¹ Includes those who held postdoctoral appointments.

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTES: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 5a. Standard errors on reasons for not working as reported by doctoral scientists and engineers, by age: 2001

Reasons for not working	All ages	Under 65	65-75
Total not employed (number).....	1,193.0	867.4	861.7
		Percent	
Retired.....	0.6	1.2	0.4
On layoff.....	0.3	0.7	S
Student.....	0.2	0.5	S
Family responsibilities.....	0.5	0.9	0.4
Ill or disabled.....	0.4	0.7	0.3
Suitable job not available.....	0.4	0.9	0.4
No need or desire to work.....	0.5	0.9	0.6
Other reason.....	0.3	0.6	0.3

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 6a. Standard errors on reasons for working part-time as reported by doctoral scientists and engineers, by age: 2001

Reason for working part-time	All ages	Under 65	65-75
Total employed part-time (number).....	990.2	884.5	504.4
		Percent	
Retired or semi-retired.....	1.1	1.1	1.7
Student.....	0.3	0.4	S
Family responsibilities.....	1.0	1.2	1.1
Ill/disabled.....	0.4	0.5	S
Suitable full-time job not available.....	0.8	1.0	1.3
No need or desire for full-time work.....	1.2	1.4	2.0
Other reason.....	0.6	0.7	1.0

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 7a. Standard errors on employment status of doctoral scientists and engineers,
by field of doctorate and sex: 2001

Employment status and sex	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total in labor force (number).....	1,341.8	337.9	675.5	209.1	626.6	638.2	482.9	590.1
	Percent							
Employed full-time ¹	0.2	0.7	0.3	1.0	0.4	0.5	0.6	0.4
Employed part-time ¹	0.2	0.6	0.3	0.9	0.3	0.5	0.6	0.4
Unemployed, seeking work.....	0.1	0.3	0.1	S	0.2	0.2	0.1	0.2
Male (number).....	1,130.5	318.9	569.2	161.1	594.6	553.4	319.4	565.6
	Percent							
Employed full-time ¹	0.2	0.7	0.4	1.1	0.4	0.7	0.7	0.4
Employed part-time ¹	0.2	0.7	0.3	1.1	0.4	0.6	0.6	0.4
Unemployed, seeking work.....	0.1	S	0.2	S	0.2	0.2	S	0.2
Female (number).....	592.2	143.8	335.8	165.0	250.2	272.2	355.8	166.5
	Percent							
Employed full-time ¹	0.4	1.9	0.7	1.4	1.1	1.1	1.0	1.4
Employed part-time ¹	0.4	1.8	0.7	1.4	1.0	1.0	1.0	1.2
Unemployed, seeking work.....	0.1	S	0.3	S	S	S	S	S

¹ Includes those who held postdoctoral appointments.

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 8a. Standard errors on retired doctoral scientists and engineers, by field of doctorate and age: 2001

Age	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total retired (number).....	1,001.5	226.4	449.9	149.3	502.6	406.5	322.5	428.0
Age group:				Percent				
Under 65.....	0.9	3.7	1.6	5.2	1.6	2.4	2.4	2.6
65-75.....	0.9	3.7	1.6	5.2	1.6	2.4	2.4	2.6

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 9a. Standard errors on employment sector of doctoral scientists and engineers, by field of doctorate: 2001

Employment sector	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed (number).....	1,388.1	144.5	337.9	705.2	214.5	655.7	653.4	480.4	590.8
	Percent								
Education institution.....	0.3	1.9	1.4	0.6	1.7	0.7	0.9	0.8	0.7
Industry.....	0.3	2.0	1.4	0.6	1.7	0.6	0.8	0.9	0.8
Government.....	0.2	S	0.7	0.4	0.9	0.5	0.6	0.5	0.4

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 10a. Standard errors on employer characteristics of doctoral scientists and engineers, by field of doctorate: 2001

Employer characteristic	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed (number).....	1,388.1	339.0	705.2	214.5	655.7	653.4	480.4	590.8
Employer size:	Percent							
Under 10 employees.....	0.2	0.6	0.3	0.9	0.4	0.5	0.8	0.4
10-24 employees.....	0.1	0.4	0.2	S	0.2	0.3	0.3	0.3
25-99 employees.....	0.1	0.5	0.3	0.5	0.3	0.3	0.3	0.3
100-499 employees.....	0.2	0.9	0.4	0.8	0.5	0.6	0.4	0.4
500-999 employees.....	0.1	0.5	0.3	0.6	0.3	0.5	0.4	0.3
1,000-4,999 employees.....	0.2	0.8	0.4	1.0	0.4	0.6	0.5	0.5
5,000 or more employees.....	0.3	1.3	0.6	1.5	0.8	0.9	0.8	0.8
Employer a new business within past 5 years?								
Yes.....	0.2	0.7	0.3	0.7	0.4	0.4	0.4	0.5
No.....	0.2	0.7	0.3	0.7	0.4	0.4	0.4	0.5

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 11a. Standard errors on relationship between work on principal job and doctoral degree as reported by doctoral scientists and engineers, by field of doctorate, 2001

Relationship between principal job and doctoral degree	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed (number).....	1,388.1	144.5	337.9	705.2	214.5	655.7	653.4	480.4	590.8
					Percent				
Closely related.....	0.3	2.0	1.4	0.6	1.4	0.8	0.9	0.7	0.8
Somewhat related.....	0.3	1.9	1.1	0.6	1.2	0.7	0.9	0.6	0.7
Not related.....	0.2	S	0.9	0.3	0.7	0.5	0.5	0.3	0.5

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 12a. Standard errors on most important reason for doctoral scientists and engineers to be working outside field of doctoral degree: 2001

Most important reason	Field of doctorate									
	All fields	Sciences							Psychology	Engineering
		All sciences	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social and related sciences			
Total reporting working outside doctoral degree field (number).....	1,041.2	966.8	238.6	481.9	145.8	512.9	406.5	306.2	448.2	
	Percent									
Pay/promotion opportunities.....	1.0	1.0	4.6	1.9	S	2.0	3.0	3.4	2.4	
Working conditions.....	0.5	0.6	S	1.2	S	0.9	S	S	S	
Job location.....	0.6	0.6	S	S	S	1.0	S	S	S	
Change in career or professional interest.....	1.0	1.1	4.5	2.3	S	1.9	3.4	4.1	2.7	
Family-related reasons.....	0.6	0.6	S	1.3	S	0.9	S	S	S	
Job in doctoral field not available.....	0.9	1.1	3.7	1.9	S	1.8	3.0	3.3	1.9	
Other reason.....	0.4	0.4	S	S	S	S	S	S	S	

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 13a. Standard errors on primary or secondary work activity of doctoral scientists and engineers, by years since doctorate: 2001

Primary or secondary work activity	Years since doctorate				
	Total	5 or less	6-15	16-25	More than 25
Total employed (number).....	1,388.1	455.9	668.4	516.4	1,002.7
			Percent		
Applied research.....	0.3	0.7	0.5	0.7	0.7
Basic research.....	0.3	0.5	0.5	0.5	0.6
Development.....	0.2	0.5	0.4	0.5	0.5
Design.....	0.2	0.4	0.3	0.3	0.3
Teaching.....	0.3	0.5	0.5	0.6	0.7
Management, sales, and administration ¹	0.3	0.5	0.5	0.6	0.8
Computer applications.....	0.2	0.5	0.4	0.4	0.4
Professional services.....	0.2	0.5	0.4	0.5	0.5
Other activities ²	0.2	0.3	0.2	0.3	0.4

¹ Category includes: accounting, finance, contracts; employee relations including recruiting, personnel, development, and training; managing, supervising; sales, purchasing, marketing, customer service, public relations; and quality or productivity management.

² Category includes: production operations, maintenance, and other activity.

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 14a. Standard errors on principal occupation of doctoral scientists and engineers, by employment sector: 2001

Principal occupation	Employment sector							
	Total	Universities and 4-year colleges	Other educational institutions	Private for-profit ¹	Self-employed	Private not-for-profit	Federal Government	State/local government
Total employed (number).....	1,388.1	1,953.0	665.2	1,553.5	798.8	742.1	872.9	647.1
					Percent			
Science and engineering occupations.....	0.3	0.4	2.0	0.5	1.3	1.3	1.0	1.7
Computer and information scientists.....	0.1	0.2	S	0.3	0.4	0.5	0.4	S
Mathematical scientists.....	0.1	0.2	0.8	0.1	S	0.4	0.5	S
Life and related scientists.....	0.2	0.4	1.2	0.3	0.6	1.0	1.0	1.3
Physical and related scientists.....	0.2	0.3	1.2	0.3	0.5	0.8	1.0	1.2
Social and related scientists.....	0.1	0.3	0.9	0.2	0.6	0.6	0.7	0.9
Psychologists.....	0.1	0.3	1.6	0.2	1.2	1.2	0.5	1.8
Engineers.....	0.2	0.3	S	0.4	0.8	0.8	0.9	0.9
Non-science and engineering occupations.....	0.3	0.4	2.0	0.5	1.3	1.3	1.0	1.7
Top/mid-level managers, administrators, etc.....	0.2	0.3	1.1	0.4	0.7	1.2	0.9	1.5
Other non-S&E occupations.....	0.2	0.3	1.8	0.4	1.3	1.0	0.6	1.2

¹ 'Private-for-profit' includes 'other' sector, not shown separately due to too few cases.

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 15a. Standard errors on principal occupation of doctoral scientists and engineers, by years since doctorate: 2001

Principal occupation	Years since doctorate				
	Total	5 or less	6-15	16-25	More than 25
Total employed (number).....	1,388.1	455.9	668.4	516.4	1,002.7
	Percent				
Science and engineering occupations.....	0.3	0.5	0.4	0.6	0.7
Computer and information scientists.....	0.1	0.3	0.3	0.3	0.3
Mathematical scientists.....	0.1	0.2	0.2	0.2	0.2
Life and related scientists.....	0.2	0.4	0.4	0.4	0.4
Physical and related scientists.....	0.2	0.3	0.3	0.4	0.4
Social and related scientists.....	0.1	0.3	0.2	0.3	0.3
Psychologists.....	0.1	0.3	0.3	0.4	0.3
Engineers.....	0.2	0.4	0.3	0.3	0.4
Non-science and engineering occupations.....	0.3	0.5	0.4	0.6	0.7
Top/mid-level managers, administrators, etc.....	0.2	0.3	0.4	0.5	0.5
Other non-S&E occupations.....	0.2	0.4	0.3	0.4	0.5

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 16a. Standard errors on Federal Government support status of doctoral scientists and engineers who were working in 2000, by field of doctorate: 2001

Support status	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed in 2000 (number).....	1,315.3	132.5	312.9	623.8	210.9	638.4	616.0	428.7	580.7
					Percent				
Received government support.....	0.3	1.8	1.3	0.6	1.5	0.7	0.8	0.7	0.7
No government support.....	0.3	1.8	1.3	0.6	1.5	0.7	0.8	0.7	0.7

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 17a. Standard errors on Federal Government support status of doctoral scientists and engineers who were working in 2000 by employment sector: 2001

Support status	Total	Employment sector in 2001								
		Universities and 4-year colleges	Other educational institutions	Private for-profit ¹	Self-employed	Private not-for-profit	Federal Government	State and local government	Not working in 2001	
Total employed in 2000 (number).....	1,315.3	1,975.0	654.9	1,553.5	784.0	736.5	874.9	645.9	808.0	
				Percent						
Received government support.....	0.3	0.5	1.2	0.4	1.0	1.4	NA	1.9	1.3	
No government support.....	0.3	0.5	1.2	0.4	1.0	1.4	NA	1.9	1.3	

¹ 'Private-for-profit' includes 'other' sector, not shown separately due to too few cases.

KEY: NA = not applicable.

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 18a. Standard errors on Federal agencies and departments supporting work of doctoral scientists and engineers who were working in 2000: 2001

Federal agency or department	All fields
Total that received Federal Government support in 2000 (number).....	1,758.0
	Percent
Agriculture Department.....	0.3
Defense Department (DoD).....	0.5
Department of Education (includes NCES, OERI, FIPSE, FIRST).....	0.2
Energy Department (DOE).....	0.4
Environmental Protection Agency (EPA).....	0.2
Health and Human Services Department (excluding NIH).....	0.3
National Aeronautics and Space Administration (NASA).....	0.3
National Institutes of Health (NIH).....	0.5
National Science Foundation (NSF).....	0.5
Transportation Department (DOT).....	0.2
Other.....	0.4
Don't know source agency.....	0.1

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 19a. Standard errors on academically employed doctoral scientists and engineers,
by field of doctorate and faculty rank: 2001

Faculty rank	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed in academe (number).....	1,957.0	217.0	430.2	884.2	355.6	740.1	786.7	768.5	754.9
					Percent				
Professor.....	0.5	2.7	1.9	0.8	1.8	1.0	1.1	1.2	1.4
Associate professor.....	0.4	3.5	1.7	0.7	1.7	0.9	1.0	1.1	1.2
Assistant professor.....	0.3	3.0	1.3	0.6	1.9	0.8	0.8	1.1	1.0
Instructor, lecturer, adjunct faculty.....	0.2	S	1.0	0.4	0.9	0.6	0.6	0.7	0.6
Not applicable at institution.....	0.1	S	S	0.2	S	0.4	0.3	0.5	0.4
Not applicable for position.....	0.3	S	0.8	0.7	1.2	0.9	0.6	1.0	0.7

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 20a. Standard errors on academically employed doctoral scientists and engineers, by years since doctorate, sex, and faculty rank: 2001

Sex and faculty rank	Years since doctorate				
	Total	5 or less	6-15	16-25	More than 25
Total employed in academe (number).....	1,957.0	725.0	953.8	964.3	1,023.7
	Percent				
Professor.....	0.5	0.3	0.6	1.1	1.0
Associate professor.....	0.4	0.4	0.8	0.8	0.7
Assistant professor.....	0.3	0.9	0.7	0.4	0.3
Instructor, lecturer, adjunct faculty.....	0.2	0.7	0.4	0.5	0.5
Not applicable at institution.....	0.1	0.3	0.2	0.3	0.3
Not applicable for position.....	0.3	0.9	0.5	0.6	0.5
Male (number).....	1,660.3	601.5	770.2	870.7	945.1
	Percent				
Professor.....	0.6	0.4	0.8	1.3	1.1
Associate professor.....	0.5	0.6	1.0	1.0	0.7
Assistant professor.....	0.3	1.2	0.8	0.4	0.3
Instructor, lecturer, adjunct faculty.....	0.3	0.8	0.5	0.5	0.5
Not applicable at institution.....	0.2	0.4	0.3	0.4	0.4
Not applicable for position.....	0.4	1.2	0.7	0.7	0.5
Female (number).....	965.7	486.8	628.0	479.5	333.2
	Percent				
Professor.....	0.7	0.5	0.9	1.8	2.9
Associate professor.....	0.7	0.5	1.4	1.7	2.1
Assistant professor.....	0.7	1.3	1.2	0.9	S
Instructor, lecturer, adjunct faculty.....	0.5	1.0	0.9	1.1	1.9
Not applicable at institution.....	0.2	0.5	0.4	S	S
Not applicable for position.....	0.6	1.2	0.9	1.3	1.6

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 21a. Standard errors on academically employed doctoral scientists and engineers,
by field of doctorate and tenure status: 2001

Tenure status	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed in academe (number).....	1,957.0	217.0	430.2	884.2	355.6	740.1	786.7	768.5	754.9
	Percent								
Tenured.....	0.4	3.5	1.7	0.8	2.1	1.2	1.0	1.3	1.5
On tenure track.....	0.3	3.0	1.2	0.6	1.6	0.8	0.7	0.8	1.1
Not on tenure track.....	0.3	S	1.1	0.7	1.4	0.8	0.7	0.9	0.8
No tenure system at institution.....	0.2	S	S	0.4	0.9	0.6	0.4	0.7	0.7
No tenure for position.....	0.3	S	1.1	0.7	1.6	1.0	0.8	1.1	0.8

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 22a. Standard errors on academically employed doctoral scientists and engineers,
by years since doctorate, sex, and tenure status: 2001

Sex and tenure status	Years since doctorate				
	Total	5 or less	6-15	16-25	More than 25
Total employed in academe (number).....	1,957.0	725.0	953.8	964.3	1,023.7
			Percent		
Tenured.....	0.4	0.4	0.8	1.0	0.9
On tenure track.....	0.3	0.8	0.7	0.4	0.2
Not on tenure track.....	0.3	0.9	0.6	0.5	0.5
No tenure system at institution.....	0.2	0.5	0.4	0.5	0.5
No tenure for position.....	0.3	0.9	0.6	0.7	0.7
Male (number).....	1,660.3	601.5	770.2	870.7	945.1
			Percent		
Tenured.....	0.5	0.4	1.0	1.1	0.9
On tenure track.....	0.3	1.1	0.8	0.4	0.3
Not on tenure track.....	0.4	1.1	0.6	0.6	0.5
No tenure system at institution.....	0.3	0.7	0.5	0.6	0.5
No tenure for position.....	0.4	1.2	0.7	0.7	0.6
Female (number).....	965.7	486.8	628.0	479.5	333.2
			Percent		
Tenured.....	0.8	0.6	1.3	1.9	2.8
On tenure track.....	0.6	1.3	1.1	0.7	S
Not on tenure track.....	0.6	1.2	1.0	1.2	1.4
No tenure system at institution.....	0.4	0.7	0.6	1.1	S
No tenure for position.....	0.7	1.4	1.1	1.4	2.4

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 23a. Standard errors on primary reason for holding postdoc for doctoral scientists and engineers, by selected field of doctorate: 2001

Reason	Field of doctorate		
	All fields	Biological and agricultural sciences	Other fields
Total postdocs (number).....	513.0	397.9	372.2
Primary reason for holding postdoc:		Percent	
Additional training in field.....	1.2	1.6	2.0
Training out of field.....	1.0	1.3	1.6
Work with specific person or place.....	1.2	1.6	2.0
No other employment available.....	1.0	1.3	1.4
Postdoc generally expected for career in this field.....	1.5	1.9	2.3
Other reason.....	0.7	0.9	S

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 24a. Standard errors on second job status of doctoral scientists and engineers, by employment sector of principal job: 2001

Second job status and occupation	Employment sector of principal job							
	All sectors	Universities and 4-year colleges	Other educational institutions	Private for-profit ¹	Self-employed	Private not-for-profit	Federal Government	State and local government
Total employed (number).....	1,388.1	1,953.0	665.2	1,553.5	798.8	742.1	872.9	647.1
	Percent							
Held second job.....	0.2	0.4	1.7	0.3	0.9	1.1	0.8	1.6
No second job.....	0.2	0.4	1.7	0.3	0.9	1.1	0.8	1.6
Total holding second job (number).....	1,204.4	929.7	350.0	599.3	303.3	358.9	303.5	296.7
	Percent							
Occupation of second job:								
Science and engineering occupations.....	0.9	1.2	3.5	2.0	3.7	2.8	4.4	3.5
Computer and information scientists.....	0.4	0.6	S	1.0	S	S	S	S
Mathematical scientists.....	0.3	0.4	S	S	S	S	S	S
Life and related scientists.....	0.5	0.8	2.1	1.0	S	2.1	S	S
Physical and related scientists.....	0.5	0.6	S	1.0	S	S	S	S
Social and related scientists.....	0.5	0.8	S	0.8	S	S	S	S
Psychologists.....	0.8	1.1	3.0	1.5	3.7	3.2	3.1	3.9
Engineers.....	0.5	0.8	S	1.4	S	S	S	S
Non-science and engineering occupation.....	0.9	1.2	3.5	2.0	3.7	2.8	4.4	3.5
Top/mid-level managers, administrators, etc.....	0.4	0.6	S	1.1	S	S	S	S
Other non-S&E occupations.....	0.9	1.2	3.5	2.2	3.6	2.6	4.0	3.4

¹ "Private-for-profit" includes "other" sector, not shown separately due to too few cases.

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 25a. Standard errors on relationship between work on second job and doctoral degree by doctoral scientists and engineers, by field of doctorate: 2001

Relationship	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total holding second job (number).....	1,204.4	267.6	554.6	253.3	456.4	535.0	690.6	525.0
	Percent							
Closely related.....	1.0	4.0	2.2	3.6	2.6	2.3	1.3	2.3
Somewhat related.....	0.8	3.3	1.8	3.2	2.3	1.9	1.1	2.0
Not related.....	0.7	S	1.8	2.7	2.4	1.6	0.8	1.8

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 26a. Standard errors on employment changes by doctoral scientists and engineers since 1999, by field of doctorate: 2001

Employment change	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed in 2001 (number).....	1,388.1	339.0	705.2	214.5	655.7	653.4	480.4	590.8
	Percent							
Not employed in 1999.....	0.1	0.4	0.2	0.5	0.3	0.3	0.3	0.3
No change since 1999.....	0.3	1.2	0.5	1.6	0.6	0.7	0.6	0.7
Change in employer and job.....	0.2	0.8	0.4	1.1	0.4	0.5	0.4	0.5
Change in employer only.....	0.1	0.6	0.3	0.8	0.3	0.3	0.4	0.4
Change in job only.....	0.2	0.7	0.3	0.8	0.3	0.4	0.4	0.4

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 27a. Standard errors on reasons for changing employer and/or job since 1999 for employed doctoral scientists and engineers, by field of doctorate: 2001

Reasons	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total changing employer and/or job (number).....	1,592.4	421.4	755.3	323.4	639.0	511.8	562.5	712.4
	Percent							
Pay or promotion opportunities.....	0.6	2.3	1.2	3.0	1.2	2.0	1.9	1.5
Working conditions.....	0.6	2.6	1.3	3.0	1.4	1.9	1.9	1.3
Job location.....	0.5	2.2	1.2	2.5	1.2	1.8	1.7	1.1
Change in career.....	0.6	2.3	1.1	2.8	1.5	2.0	1.6	1.4
Family-related reasons.....	0.4	1.3	0.8	2.2	1.0	1.3	1.4	0.7
School-related reasons.....	0.4	1.4	0.8	1.9	0.8	1.2	1.2	0.8
Laid off or job terminated.....	0.5	1.9	1.0	2.6	1.1	1.5	1.5	1.2
Retired.....	0.3	S	0.5	S	0.8	1.2	0.8	0.6
Other reason.....	0.2	S	0.3	S	0.5	S	S	0.4

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 28a. Standard errors on professional society or association membership of doctoral scientists and engineers, by field of doctorate: 2001

Number of memberships	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total (number).....	837.1	125.7	269.1	401.8	121.0	386.9	468.5	218.6	410.7
	Percent								
None.....	0.3	2.0	1.2	0.5	0.9	0.6	0.7	0.6	0.7
One.....	0.3	1.8	1.3	0.4	1.0	0.6	0.7	0.6	0.6
Two.....	0.3	1.9	1.3	0.5	1.3	0.6	0.7	0.8	0.6
Three.....	0.2	1.4	1.0	0.5	1.1	0.5	0.7	0.6	0.5
Four or more.....	0.2	1.1	0.9	0.5	1.4	0.5	0.7	0.7	0.4

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 29a. Standard errors on work-related training activities of doctoral scientists and engineers,
by field of doctorate: 2001**

Training areas and reasons for taking training	Field of doctorate								
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering	
Total (number).....	837.1	249.2	401.8	121.0	386.9	468.5	218.6	410.7	
				Percent					
Taken work-related training in the past year.....	0.3	1.2	0.6	1.4	0.6	0.8	0.7	0.8	
Did not take work-related training.....	0.3	1.2	0.6	1.4	0.6	0.8	0.7	0.8	
Total taking training (number).....	1,852.2	486.4	978.4	343.6	878.5	796.7	700.3	861.1	
Type of training:				Percent					
Management/supervisor training.....	0.4	1.5	0.8	1.7	0.9	1.1	0.7	0.9	
Training in occupational field.....	0.4	1.5	0.7	1.5	0.9	1.2	0.5	0.9	
General professional training.....	0.3	1.5	0.7	1.5	0.8	1.1	0.7	0.7	
Other work-related training.....	0.2	0.8	0.5	1.0	0.6	0.8	0.4	0.5	
Most important reason for taking training:									
To change occupational field.....	0.1	0.6	0.3	S	0.3	0.4	0.2	0.3	
Further skills in occupational field.....	0.4	1.6	0.8	1.8	1.0	1.1	0.9	1.1	
Licensure/certification.....	0.2	S	0.4	1.3	0.3	0.5	0.8	0.3	
Increase opportunities.....	0.2	0.8	0.3	0.7	0.4	0.5	0.3	0.5	
Learn skills for new position.....	0.2	1.0	0.4	0.9	0.5	0.6	0.3	0.6	
Required or expected by employer.....	0.2	1.1	0.5	1.0	0.7	0.8	0.4	0.6	
Other reasons.....	0.1	S	0.2	S	0.3	0.5	0.3	0.3	

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 30a. Standard errors on continuing education of doctoral scientists and engineers between April 1999 and April 2001, by field of doctorate, 2001

Continuing education	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total (Number).....	837.1	125.7	269.1	401.8	121.0	386.9	468.5	218.6	410.7
Courses taken:	Percent								
Took courses.....	0.1	S	0.6	0.3	0.7	0.3	0.4	0.3	0.3
Did not take courses.....	0.1	0.7	0.6	0.3	0.7	0.3	0.4	0.3	0.3
Total taking courses (Number).....	878.2	S	180.4	469.2	164.9	350.4	325.4	311.4	374.3
Reasons for taking courses ¹ :	Percent								
Gain further education before career.....	1.2	S	S	2.3	S	2.8	3.4	3.3	2.7
Prepare for graduate school.....	0.4	S	S	S	S	S	S	S	S
Change academic or occupational field.....	1.4	S	S	2.3	S	3.2	3.3	3.1	3.4
Gain further skills or knowledge.....	1.2	S	7.5	2.5	5.2	3.0	4.2	3.3	3.3
Licensure or certification.....	1.0	S	S	2.1	S	2.3	2.8	3.0	2.1
Increase opportunities for advancement.....	1.4	S	7.5	2.6	6.0	3.0	3.9	3.8	3.2
Required or expected by employer.....	1.0	S	S	2.1	S	2.4	2.9	2.0	2.0
Leisure or personal interest.....	1.3	S	7.1	2.4	5.9	3.2	4.4	3.6	3.0
Other reason.....	0.5	S	S	S	S	S	S	S	S
School-related costs:									
Employer paid costs.....	1.4	S	7.0	2.5	6.4	3.1	3.5	3.4	2.9
Employer did not pay cost.....	1.4	S	7.0	2.5	6.4	3.1	3.5	3.4	2.9
Degree/certificate status:									
Completed degree/certificate.....	0.9	S	S	1.9	S	1.9	S	2.1	2.5
Did not complete degree/certificate.....	0.9	S	5.4	1.9	5.5	1.9	2.5	2.1	2.5

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 31a. Standard errors on most important resource used and length of time taken to find first career path job for recent doctoral recipients, by field of doctorate, 2001

Resource and length of time	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total recent doctoral recipients holding a career path job (number).....	341.9	144.1	235.0	109.6	204.0	191.5	155.3	204.3
Most important job search resource:	Percent							
Faculty or advisor.....	0.9	3.1	2.1	4.4	2.5	2.6	2.0	2.2
Informal channels through colleagues or friends.....	1.0	3.3	1.8	3.8	2.5	2.4	3.2	2.2
Professional meetings and/or journals.....	0.7	S	1.7	S	S	2.7	2.0	1.2
Other resource ¹	1.0	3.8	2.0	4.1	2.7	2.9	2.8	2.3
Length of time between completion of first doctoral degree and first career path job:								
Less than 1 month ²	0.9	3.1	2.1	4.0	2.3	2.4	2.7	2.0
1-6 months.....	0.8	S	1.9	S	2.2	2.1	2.4	1.7
7-12 months.....	0.4	S	0.9	S	S	S	S	S
More than 12 months.....	0.4	S	S	S	S	S	S	S

¹ 'Other resource' includes professional recruiter, college/department placement office, electronic postings, newspapers, direct contact with company, and other.

² Includes those who already held a career path job before completion of doctoral degree.

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 32a. Standard errors on factors that somewhat or greatly limited career path job search by recent doctoral recipients, by field of doctorate: 2001

Factors limiting career path job search	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total recent doctoral recipients seeking or holding a career path job (number).....	316.2	146.0	219.3	104.3	193.6	189.5	156.5	200.3
Factors that somewhat or greatly limited career path job search:	Percent							
Family responsibilities.....	1.1	3.6	2.3	4.3	2.9	2.9	2.8	2.4
Spouse's career or employment.....	1.0	3.8	2.1	4.1	2.8	3.0	2.9	2.1
Debt from undergraduate or graduate degree(s).....	0.8	3.0	1.5	S	1.9	2.3	2.6	1.7
Desire to not relocate.....	1.0	3.4	2.1	4.4	3.0	3.1	2.9	2.1
Suitable job not available.....	1.0	3.6	1.9	4.3	2.5	2.9	2.8	2.1
Other.....	0.4	S	S	S	S	S	S	S

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 33a. Standard errors on areas of training in which recent doctoral recipients thought their doctoral program had somewhat or very adequately prepared them for a career, by field of doctorate: 2001

Areas of doctoral training	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total recent doctoral recipients (number).....	155.7	69.5	86.8	170.5	92.5	149.1	156.5	151.2	165.1
	Percent								
General problem solving skills.....	0.4	1.8	1.5	0.6	1.5	0.6	1.5	1.1	0.5
Subject matter knowledge.....	0.4	1.7	2.1	0.6	1.2	1.2	1.0	1.1	1.0
Oral communication skills.....	0.6	2.6	3.2	1.0	2.2	1.5	2.3	1.5	1.6
Teaching skills.....	0.9	4.8	4.3	2.0	3.8	2.2	2.6	2.3	2.2
Collaboration and teamwork skills.....	0.8	4.5	4.3	1.4	3.1	1.8	2.6	1.9	1.8
Quantitative skills.....	0.6	2.3	3.8	1.2	1.7	0.9	1.9	1.3	1.0
Writing skills.....	0.5	2.8	4.0	1.2	1.8	1.6	1.5	1.0	1.2
Computer skills.....	0.6	0.9	4.0	1.2	2.5	1.4	2.1	2.3	1.1
Research integrity/ethics.....	0.5	2.9	3.8	1.0	1.7	1.4	1.4	0.8	1.0
Establishing contacts with colleagues in field.....	0.9	4.9	3.5	1.7	3.0	2.4	2.4	2.4	1.9
Management or administrative skills.....	1.0	5.7	4.1	2.0	4.2	2.5	2.5	2.7	2.3

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 34a. Standard errors on top two areas of the doctoral program in which recent doctoral recipients would have liked more training, by field of doctorate: 2001

Areas of doctoral training	Field of doctorate							
	All fields	Computer and mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total recent doctoral recipients (number).....	155.7	116.1	170.5	92.5	149.1	156.5	151.2	165.1
Additional training desired (number).....	361.4	146.2	244.3	121.2	189.2	193.0	189.9	211.9
				Percent				
General problem solving skills.....	0.6	S	1.2	S	S	S	S	1.6
Subject matter knowledge.....	0.8	S	1.6	S	2.3	2.2	2.2	1.7
Oral communication skills.....	0.8	S	1.6	S	2.2	2.0	S	2.1
Teaching skills.....	1.0	S	2.0	4.0	2.4	2.7	2.5	1.8
Collaboration and teamwork skills.....	0.8	S	1.6	S	2.0	2.5	S	1.9
Quantitative skills.....	0.7	S	1.4	S	S	2.7	1.9	S
Writing skills.....	0.8	S	1.7	S	2.3	1.8	S	1.6
Computer skills.....	0.9	S	1.7	S	2.5	2.1	2.4	1.5
Research integrity/ethics.....	0.4	S	S	S	S	S	S	S
Establishing contacts with colleagues in field.....	1.1	4.1	1.7	S	2.6	3.0	3.0	2.3
Management or administrative skills.....	1.1	4.0	2.1	4.3	2.5	2.2	2.9	2.4

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 35a. Standard errors on level of overall satisfaction with doctoral program by recent doctoral recipients, by field of doctorate: 2001

Level of overall satisfaction with doctoral program	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total recent doctoral recipients (number).....	155.7	69.5	86.8	170.5	92.5	149.1	156.5	151.2	165.1
					Percent				
Very satisfied.....	1.1	5.1	4.8	2.0	4.1	2.5	3.0	2.8	2.2
Somewhat satisfied.....	1.0	5.0	S	2.1	3.9	2.3	2.8	2.7	2.0
Very or somewhat dissatisfied.....	0.5	S	S	1.2	S	1.3	1.8	S	S

KEY: S = Suppressed due to too few cases in the estimate (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 36a. Standard errors on level of satisfaction of doctoral scientists and engineers with various attributes of principal job, by field of doctorate: 2001

Job attributes and level of satisfaction	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed (number).....	1388.1	144.5	337.9	705.2	214.5	655.7	653.4	480.4	590.8
	Percent								
Salary:									
Very satisfied.....	0.3	2.1	1.4	0.6	1.4	0.6	0.9	0.8	0.7
Somewhat satisfied.....	0.3	2.3	1.4	0.6	1.6	0.7	1.0	0.9	0.7
Somewhat dissatisfied.....	0.3	1.5	1.0	0.5	1.2	0.5	0.7	0.7	0.5
Very dissatisfied.....	0.1	S	0.7	0.3	0.7	0.3	0.5	0.4	0.3
Benefits:									
Very satisfied.....	0.3	2.2	1.5	0.7	1.5	0.7	0.9	0.8	0.7
Somewhat satisfied.....	0.3	2.1	1.5	0.7	1.5	0.7	0.9	0.8	0.8
Somewhat dissatisfied.....	0.2	1.2	0.8	0.4	0.9	0.5	0.6	0.6	0.5
Very dissatisfied.....	0.1	S	0.6	0.3	0.7	0.3	0.4	0.5	0.3
Job security:									
Very satisfied.....	0.3	2.3	1.5	0.6	1.5	0.8	0.8	0.9	0.9
Somewhat satisfied.....	0.3	2.3	1.5	0.6	1.3	0.7	0.8	0.8	0.8
Somewhat dissatisfied.....	0.2	1.5	0.9	0.5	0.9	0.5	0.4	0.6	0.5
Very dissatisfied.....	0.1	S	0.6	0.3	0.8	0.4	0.4	0.4	0.3
Job location:									
Very satisfied.....	0.3	2.2	1.6	0.6	1.5	0.6	0.8	0.9	0.8
Somewhat satisfied.....	0.3	2.1	1.5	0.6	1.4	0.6	0.8	0.8	0.7
Somewhat dissatisfied.....	0.2	1.4	1.0	0.4	0.9	0.5	0.5	0.5	0.5
Very dissatisfied.....	0.1	S	0.4	0.2	0.5	0.3	0.3	0.3	0.2
Opportunity for advancement:									
Very satisfied.....	0.3	2.0	1.2	0.6	1.5	0.7	0.8	0.8	0.7
Somewhat satisfied.....	0.4	2.2	1.4	0.7	1.5	0.8	0.9	0.8	0.8
Somewhat dissatisfied.....	0.3	1.8	1.2	0.6	1.3	0.6	0.7	0.6	0.7
Very dissatisfied.....	0.2	S	0.7	0.4	0.8	0.5	0.5	0.4	0.4
Intellectual challenge:									
Very satisfied.....	0.3	2.4	1.5	0.6	1.7	0.8	0.8	0.8	0.8
Somewhat satisfied.....	0.3	2.1	1.6	0.6	1.6	0.8	0.8	0.8	0.7
Somewhat dissatisfied.....	0.2	1.2	1.1	0.3	0.9	0.5	0.6	0.4	0.5
Very dissatisfied.....	0.1	S	S	0.2	S	0.3	0.3	0.3	0.2
Level of responsibility:									
Very satisfied.....	0.3	2.1	1.4	0.7	1.5	0.7	0.9	0.8	0.7
Somewhat satisfied.....	0.3	2.2	1.2	0.6	1.4	0.7	0.8	0.7	0.7
Somewhat dissatisfied.....	0.2	1.3	1.0	0.4	1.0	0.5	0.5	0.4	0.5
Very dissatisfied.....	0.1	S	S	0.2	S	0.2	0.3	0.2	0.2

See explanatory information and SOURCE at end of table.

Table 36a. Standard errors on level of satisfaction of doctoral scientists and engineers with various attributes of principal job, by field of doctorate: 2001

Job attributes and level of satisfaction	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed (number).....	1,388.1	144.5	337.9	705.2	214.5	655.7	653.4	480.4	590.8
					Percent				
Degree of independence:									
Very satisfied.....	0.3	2.1	1.4	0.6	1.4	0.7	0.9	0.7	0.7
Somewhat satisfied.....	0.3	2.0	1.4	0.6	1.4	0.7	0.8	0.7	0.7
Somewhat dissatisfied.....	0.1	1.1	0.7	0.3	0.7	0.3	0.4	0.3	0.4
Very dissatisfied.....	0.1	S	S	0.2	S	0.2	0.2	0.2	0.2
Contribution to society:									
Very satisfied.....	0.3	2.4	1.7	0.6	1.5	0.8	1.0	0.8	0.8
Somewhat satisfied.....	0.3	2.3	1.7	0.6	1.4	0.8	1.0	0.7	0.8
Somewhat dissatisfied.....	0.2	1.3	0.9	0.3	0.6	0.4	0.5	0.3	0.5
Very dissatisfied.....	0.1	S	0.4	0.1	S	0.2	0.2	0.2	0.2

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 37a. Standard errors on importance of various job attributes to doctoral scientists and engineers, by field of doctorate: 2001

Job attributes and level of importance	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed (number).....	1,388.1	144.5	337.9	705.2	214.5	655.7	653.4	480.4	590.8
					Percent				
Salary:									
Very important.....	0.3	2.2	1.5	0.7	1.7	0.7	0.9	0.9	0.8
Somewhat important.....	0.3	2.3	1.5	0.7	1.7	0.7	0.9	0.8	0.8
Somewhat unimportant.....	0.1	S	0.6	0.2	S	0.2	0.4	0.3	0.2
Not important at all.....	0.1	S	S	0.1	S	0.1	0.2	0.1	0.1
Benefits:									
Very important.....	0.3	2.2	1.6	0.6	1.4	0.7	1.0	0.8	0.7
Somewhat important.....	0.3	2.2	1.6	0.6	1.4	0.7	0.9	0.8	0.7
Somewhat unimportant.....	0.1	S	0.6	0.2	0.5	0.2	0.3	0.4	0.3
Not important at all.....	0.1	S	S	0.1	S	0.2	0.3	0.3	0.2
Job security:									
Very important.....	0.3	2.2	1.5	0.7	1.6	0.8	0.9	0.8	0.8
Somewhat important.....	0.3	2.3	1.6	0.7	1.5	0.8	0.9	0.9	0.8
Somewhat unimportant.....	0.2	1.4	0.6	0.3	0.7	0.3	0.4	0.4	0.4
Not important at all.....	0.1	S	S	0.1	S	0.2	0.3	0.2	0.3
Job location:									
Very important.....	0.3	2.3	1.5	0.6	1.5	0.8	0.9	0.9	0.8
Somewhat important.....	0.3	2.2	1.5	0.6	1.5	0.7	0.9	0.9	0.8
Somewhat unimportant.....	0.1	1.0	0.6	0.3	0.5	0.3	0.4	0.3	0.3
Not important at all.....	0.1	S	S	0.1	S	0.1	0.2	0.2	0.1
Opportunity for advancement:									
Very important.....	0.3	2.1	1.5	0.6	1.7	0.6	0.9	0.8	0.6
Somewhat important.....	0.3	2.2	1.5	0.6	1.7	0.7	0.9	0.9	0.7
Somewhat unimportant.....	0.2	1.3	0.9	0.3	0.8	0.4	0.6	0.6	0.4
Not important at all.....	0.1	S	0.6	0.2	0.5	0.2	0.4	0.4	0.3
Intellectual challenge:									
Very important.....	0.3	1.7	1.2	0.6	1.3	0.6	0.7	0.6	0.6
Somewhat important.....	0.3	1.7	1.1	0.5	1.3	0.6	0.7	0.6	0.6
Somewhat unimportant.....	0.1	S	S	0.1	S	0.1	0.2	S	0.2
Not important at all.....	0.0	S	S	S	S	S	S	S	S
Level of responsibility:									
Very important.....	0.3	2.0	1.4	0.7	1.6	0.7	0.9	0.9	0.8
Somewhat important.....	0.3	2.0	1.5	0.6	1.5	0.8	0.9	0.8	0.7
Somewhat unimportant.....	0.2	1.1	1.0	0.3	0.7	0.4	0.5	0.3	0.4
Not important at all.....	0.1	S	0.5	0.1	S	0.2	0.3	0.2	0.2

See explanatory information and SOURCE at end of table.

Table 37a. Standard errors on importance of various job attributes to doctoral scientists and engineers, by field of doctorate: 2001

Job attributes and level of importance	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total employed (number).....	1,388.1	144.5	337.9	705.2	214.5	655.7	653.4	480.4	590.8
					Percent				
Degree of independence:									
Very important.....	0.3	2.2	1.5	0.6	1.2	0.7	0.7	0.6	0.7
Somewhat important.....	0.3	2.1	1.5	0.5	1.2	0.7	0.7	0.6	0.7
Somewhat unimportant.....	0.1	S	0.5	0.2	S	0.2	0.2	0.1	0.2
Not important at all.....	0.0	S	S	S	S	S	S	S	S
Contribution to society:									
Very important.....	0.3	2.2	1.5	0.6	1.4	0.7	0.8	0.8	0.7
Somewhat important.....	0.3	2.2	1.5	0.6	1.3	0.8	0.8	0.8	0.7
Somewhat unimportant.....	0.1	1.4	0.8	0.2	S	0.4	0.3	0.2	0.4
Not important at all.....	0.1	S	0.5	0.1	S	0.2	0.2	0.2	0.2

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 38a. Standard errors on number of articles, papers and books authored by doctoral scientists and engineers between April 1995 and April 2001, by field of doctorate and employment sector: 2001

Field of doctorate and employment sector	Total number	Number of articles						Number of papers						Number of books					
		None	1-2	3-5	6-10	More than 10	Mean number	None	1-2	3-5	6-10	More than 10	Mean number	None	1-2	3-5	6-10	More than 10	Mean number
		Percent						Percent						Percent					
All doctoral scientists and engineers.....	837.1	0.3	0.2	0.2	0.2	0.2	0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.3	0.2	0.1	0.1	0.0	0.1
Field of doctorate:																			
Computer and information sciences.....	125.7	2.2	1.8	1.6	1.4	0.9	0.2	1.7	1.8	1.7	1.6	1.7	0.5	1.6	1.5	S	S	S	0.0
Mathematical sciences.....	269.1	1.4	1.1	1.1	0.8	0.9	0.2	1.4	1.1	1.2	0.8	0.9	0.2	1.0	1.0	S	S	S	0.0
Biological and agricultural sciences.....	401.8	0.5	0.4	0.4	0.5	0.4	0.1	0.5	0.4	0.5	0.5	0.5	0.1	0.5	0.4	0.2	0.1	S	0.0
Health sciences.....	121.0	1.4	1.1	1.0	1.0	1.2	0.3	1.4	1.0	1.3	1.0	1.3	0.4	1.3	1.2	0.7	S	S	0.1
Physical and related sciences.....	386.9	0.6	0.5	0.5	0.4	0.4	0.1	0.6	0.4	0.5	0.4	0.5	0.2	0.5	0.4	0.2	0.1	S	0.0
Social sciences.....	468.5	0.8	0.7	0.6	0.5	0.4	0.1	0.8	0.6	0.7	0.7	0.7	0.1	0.8	0.8	0.4	0.2	S	0.0
Psychology.....	218.6	0.8	0.5	0.5	0.4	0.4	0.1	0.8	0.6	0.6	0.5	0.5	0.2	0.6	0.5	0.3	0.1	S	0.0
Engineering.....	410.7	0.7	0.6	0.5	0.4	0.4	0.1	0.7	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.2	S	S	0.0
Employment sector:																			
Education institution.....	1,900.6	0.4	0.3	0.4	0.4	0.4	0.1	0.4	0.3	0.4	0.4	0.4	0.1	0.5	0.4	0.2	0.1	0.1	0.0
Industry.....	1,752.7	0.5	0.4	0.3	0.2	0.2	0.1	0.5	0.3	0.4	0.3	0.3	0.1	0.4	0.3	0.1	0.1	0.0	0.0
Government.....	1,072.7	1.0	0.8	0.8	0.7	0.8	0.2	1.0	0.8	0.8	0.9	0.8	0.2	0.9	0.7	0.4	S	S	0.0
Not working.....	1,193.0	0.7	0.6	0.5	0.3	0.2	0.1	0.8	0.6	0.5	0.3	0.3	0.1	0.5	0.5	0.2	S	S	0.0

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 39a. Standard errors on number of articles, papers and books authored by academically employed doctoral scientists and engineers between April 1995 and April 2001, by faculty rank and tenure status: 2001

Faculty rank and tenure status	Total number	Number of articles						Number of papers						Number of books					
		None	1-2	3-5	6-10	More than 10	Mean number	None	1-2	3-5	6-10	More than 10	Mean number	None	1-2	3-5	6-10	More than 10	Mean number
Total academically employed		Percent						Percent						Percent					
doctoral scientists and engineers.....	1,957.0	0.4	0.3	0.4	0.4	0.4	0.1	0.4	0.3	0.4	0.4	0.5	0.1	0.5	0.4	0.2	0.1	0.1	0.0
Faculty rank:																			
Full professor.....	1,490.6	0.7	0.6	0.7	0.6	0.8	0.3	0.6	0.6	0.6	0.7	0.9	0.3	1.0	0.8	0.5	0.2	0.1	0.1
Associate professor.....	1,029.2	0.9	0.7	0.9	0.8	0.9	0.2	0.7	0.6	0.8	0.8	0.8	0.3	1.0	1.0	0.5	0.3	S	0.0
Assistant professor.....	771.1	0.8	0.8	0.9	0.9	0.8	0.2	0.6	0.6	0.8	0.9	1.0	0.2	0.9	0.9	0.3	S	S	0.0
Instructor/lecturer.....	459.0	2.5	2.0	2.0	1.5	1.3	0.4	2.5	1.9	2.1	1.7	1.5	0.3	1.9	1.9	S	S	S	0.1
Adjunct and other faculty.....	456.4	2.8	2.1	2.2	1.5	1.4	0.3	2.4	2.3	1.9	1.9	2.1	0.5	2.0	1.9	S	S	S	0.0
Rank not applicable.....	907.9	0.9	0.9	1.1	1.0	0.7	0.2	0.9	0.9	1.1	1.0	0.8	0.2	0.8	0.7	0.4	S	S	0.0
Tenure status:																			
Tenured.....	1,589.8	0.6	0.5	0.6	0.5	0.6	0.2	0.5	0.4	0.5	0.5	0.6	0.2	0.8	0.6	0.4	0.2	S	0.0
On tenure track.....	719.1	0.8	0.9	1.0	1.0	0.9	0.2	0.6	0.7	0.9	1.1	1.2	0.3	1.0	1.0	0.4	S	S	0.0
Not on tenure track.....	791.3	1.1	1.1	1.2	1.1	1.1	0.3	1.1	0.9	1.3	1.2	1.1	0.3	1.2	1.1	0.6	S	S	0.0
Tenure not applicable.....	1,091.3	0.9	0.8	0.8	0.7	0.6	0.2	0.8	0.8	0.9	0.8	0.8	0.2	0.8	0.7	0.4	0.2	S	0.0

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 40a. Standard errors on patent activities by doctoral scientists and engineers between April 1995 and April 2001, by field of doctorate: 2001

Patent activities	Field of doctorate								
	All fields	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
Total doctoral scientists and engineers (number).....	837.1	125.7	269.1	401.8	121.0	386.9	468.5	218.6	410.7
	Percent								
Named as inventor.....	0.2	2.0	0.7	0.4	0.7	0.5	0.2	0.2	0.7
Not named as inventor.....	0.2	2.0	0.7	0.4	0.7	0.5	0.2	0.2	0.7
Total named on patent applications (number).....	1,272.8	230.5	212.5	681.7	169.3	690.2	164.5	215.0	769.9
	Percent								
Number of patent applications:									
1-2.....	0.7	4.4	6.1	1.5	5.4	1.4	8.6	6.7	1.1
3-10.....	0.7	4.3	5.9	1.4	S	1.4	S	S	1.2
More than 10.....	0.4	S	S	0.6	S	0.9	S	S	0.8
Number of patents granted:									
None.....	0.7	3.7	5.7	1.4	S	1.2	S	6.8	1.1
1-2.....	0.8	4.2	5.8	1.6	6.4	1.4	S	6.5	1.3
3-10.....	0.7	S	S	1.3	S	1.4	S	S	1.1
More than 10.....	0.3	S	S	S	S	0.7	S	S	0.6
Total with patents granted (number).....	1,151.9	183.3	182.1	583.4	128.4	644.4	S	176.3	705.6
	Percent								
Number of products or licenses:									
None.....	0.9	5.3	S	1.7	S	1.5	S	S	1.5
1-2.....	0.9	5.1	S	1.7	S	1.5	S	S	1.5
More than 3.....	0.7	S	S	1.0	S	1.2	S	S	1.2

KEY: S = Suppressed due to too few cases (fewer than 500 weighted cases).

NOTE: Survey of Doctorate Recipients includes persons who had earned a science or engineering research doctorate from an U.S. institution and resided in U.S. as of April 2001.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients