

1993 Survey of Doctorate Recipients

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information you provide will be treated as confidential and will be used for statistical purposes only. Information will be released only in the form of statistical summaries from which it will be impossible to identify any particular person. Your response is entirely voluntary and failure to provide some or all of the requested information will not in any way adversely affect you.

Public reporting burden for this collection of information is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing to collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Herman Fleming, National Science Foundation, 1800 G Street, NW, Washington, D.C.; and to the Office of Management and Budget Paperwork Reduction Project (OMB No. 3145-0020), Washington, DC 20503.

Conducted by
The National Research Council
for the

National Science Foundation
Washington, D.C.

Note: The format of this survey instrument has been altered slightly to reduce download time.

INSTRUCTIONS

Thank you for taking the time to complete this important questionnaire. The directions for filling it out are provided with each question. Because not all questions will apply to everyone, you may be asked to skip certain questions.

- In order to get comparable data, we will be asking you to refer to the week of April 15, 1993 when answering most questions
- If no "skip" instruction is provided, you should continue to the next question
- Either a pen or pencil may be used
- When answering questions that require marking a box, please use an [X]
- If you need to change an answer, please make sure that your old answer is either completely erased or clearly crossed out

Thanks again for your help, we really appreciate it.

PART A - Employment Status During the Week of April 15, 1993

A1. Were you working for pay (or profit) during the week of April 15, 1993? This includes a postdoctoral appointment, being self-employed or temporarily absent from a job (e.g., illness, vacation or parental leave), even if unpaid.

- 1 Yes ⇒ SKIP TO A7
- 2 No

A2. (IF NO) Did you look for work at any time during the four weeks preceding April 15?

- 1 Yes
- 2 No

A3. What were your reasons for not working during the week of April 15?

MARK ALL THAT APPLY

- 01 Retired
- 02 On layoff from a job
- 03 Student
- 04 Family responsibilities
- 05 Chronic illness or permanent disability
- 06 Suitable job not available
- 07 Did not need or want to work
- 08 Other (Specify: _____)

A4. In what month and year did you last work for pay (or profit)?

MARK THIS BOX (X) if you have NEVER worked for pay (or profit) and then SKIP TO PART D (PAGE 10)

LAST WORKED: _____ 19 _____
Month Year

A5. What kind of work were you doing on your last job--that is, what was your occupation? Please be as specific as possible, including any area of specialization.

- Example: College professor - Electrical engineering
- _____
- _____

A6. Using the JOB CODES (pp. 14-15), choose the code that BEST describes the work you were doing on your last job.

____|____|____| CODE ⇒ SKIP TO PART B (PAGE 7)

A7. (IF WORKING WEEK OF APRIL 15th) Counting all jobs held during the week of April 15, were you employed full-time or part-time?

- 1 Full-time (usually worked a total of 35 or more hours per week) ⇒ SKIP TO A9
- 2 Part-time (usually worked less than 35 hours per week)

A8. (IF PART-TIME) What were your reasons for working part-time rather than full-time during the week of April 15?

MARK ALL THAT APPLY

- 01 Retired or semi-retired ⇒ 19 _____ YEAR
- 02 Student
- 03 Family responsibilities
- 04 Chronic illness or permanent disability
- 05 Suitable full-time job not available
- 06 Did not need or want to work full-time
- 07 Other (Specify: _____)

→ SKIP TO A10 (PAGE 2)

A9. (IF FULL-TIME) Although you were working during the week of April 15, had you previously retired from any position?

- Examples of retirement include mandatory retirement, early retirement, or voluntary retirement
- 1 Yes ⇒ 19 _____ YEAR
 - 2 No

Please answer the next series of questions for your principal job held during the week of April 15, 1993. A second job, if held, will be covered later.

A10. Who was your principal employer during the week of April 15?

- If you had more than one job that week: Your principal employer is the one for whom you worked the most hours that week

Employer Name: _____

City/Town: _____

State/Foreign Country: _____

ZIP Code: _____

A11. Was this job a POSTDOCTORAL appointment, that is, a temporary appointment in academia, industry or government, primarily for providing continued education or experience in research?

- 1 Yes
- 2 No

A12. Was your employer an educational institution?

- 1 Yes
- 2 No ⇒ **SKIP TO A16**

A13. (IF EDUCATIONAL INSTITUTION) Was the educational institution...

MARK ONE

- 1 An elementary, middle, or secondary school or system ⇒ **SKIP TO A17 (PAGE 3)**
- 2 A 2-year college, junior college, technical institute
- 3 A 4-year college or university, other than a medical school
- 4 A medical school (including university-affiliated hospital or medical center)
- 5 A university-affiliated research institute
- 6 Other (*Specify:* _____)

A14. What was your faculty rank?

MARK ONE

- 1 Not applicable at this institution
- 2 Not applicable for my position
- 3 Professor
- 4 Associate Professor
- 5 Assistant Professor
- 6 Instructor
- 7 Lecturer
- 8 Adjunct Faculty
- 9 Other (*Specify:* _____)

A15. What was your tenure status?

MARK ONE

- 1 Not applicable: no tenure system at this institution
- 2 Not applicable: no tenure system for my position
- 3 Tenured
- 4 On tenure track but not tenured
- 5 Not on tenure track _____

SKIP TO A17 (PAGE 3)

A16. (IF NOT EDUCATIONAL INSTITUTION) Was your employer...

MARK ONE

- 01 A Private for Profit company, business or individual, working for wages, salary or commissions
- 02 A Private Not-for-Profit, tax-exempt, or charitable organization
- 03 Self-Employed in own NOT INCORPORATED business, professional practice, or farm
- 04 Self-Employed in own INCORPORATED business, professional practice, or farm
- 05 Local government (city, county, etc.)
- 06 State government
- 07 U.S. military service, active duty or Commissioned Corps (e.g., USPHS, NOAA)
- 08 U.S. government (civilian employee)
- 09 Other (*Specify:* _____)

A17. What kind of work were you doing on your principal job held during the week of April 15-- that is, what was your occupation? Please be as specific as possible, including any area of specialization.

- Example: College professor - Electrical engineering

A18. Using the JOB CODES (pp. 14-15) choose the code that BEST describes the work you were doing on your principal job during the week of April 15.

____|____|____|____| CODE

A19. Did you record job code "141" in A18?

- 1 Yes
 2 No ⇒ **SKIP TO A21**

A20. (IF YES) Did your duties on this job require technical expertise equivalent to at least a bachelor's degree in...

- | | <u>YES</u> | <u>NO</u> |
|--|----------------------------|----------------------------|
| a. Engineering, computer science, math or the natural sciences | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| b. The social sciences | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |

A21. In some occupational areas, licensing or certification is recommended or required. As of the week of April 15, were you licensed or certified in your occupation?

- Do not include academic degrees

MARK ONE

- 0 Licensure, certification not recommended or required
 1 Yes
 2 No

A22. Thinking about the relationship between your work and your education, to what extent was your work on your principal job held during the week of April 15 related to your first doctoral degree awarded in the U.S.? Was it...

MARK ONE

- 1 Closely related
 2 Somewhat related
 3 Not related

A23. (IF NOT RELATED) Did these factors influence your decision to work in an area outside the field of your first U.S. doctoral degree?

MARK YES OR NO FOR EACH

- | | <u>YES</u> | <u>NO</u> |
|---|----------------------------|----------------------------|
| a. Pay, promotion opportunities | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| b. Working conditions (hours, equipment, working environment) | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| c. Job location | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| d. Change in career or professional interests | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| e. Family-related reasons | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| f. Job in doctoral degree field not available | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| g. Other reason (<i>Specify:</i>
_____) | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |

A24. Which factor in A23 represents your MOST important reason for working in an area outside the field of your first U.S. doctoral degree?

____| ENTER LETTER OF MOST IMPORTANT REASON FROM A23

A25. The next question is about your work activities on your principal job. Did the following work activities occupy 10 percent or more of your time during a typical work week on this job?

MARK YES OR NO FOR EACH

	<u>YES</u>	<u>NO</u>
a. Accounting, finance, contracts	1 <input type="checkbox"/>	2 <input type="checkbox"/>
b. Applied research - study directed toward gaining scientific knowledge to meet a recognized need	1 <input type="checkbox"/>	2 <input type="checkbox"/>
c. Basic research - study directed toward gaining scientific knowledge primarily for its own sake	1 <input type="checkbox"/>	2 <input type="checkbox"/>
d. Computer applications, programming, systems development	1 <input type="checkbox"/>	2 <input type="checkbox"/>
e. Development - using knowledge gained from research for the production of materials, devices	1 <input type="checkbox"/>	2 <input type="checkbox"/>
f. Design of equipment, processes, structures, models	1 <input type="checkbox"/>	2 <input type="checkbox"/>
g. Employee relations - including recruiting, personnel development, training	1 <input type="checkbox"/>	2 <input type="checkbox"/>
h. Management and administration	1 <input type="checkbox"/>	2 <input type="checkbox"/>
i. Production, operations, maintenance (e.g., truck driver, machinist, or mechanic)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
j. Professional services (health care, financial services, legal services, etc.)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
k. Sales, purchasing, marketing	1 <input type="checkbox"/>	2 <input type="checkbox"/>
l. Quality or productivity management	1 <input type="checkbox"/>	2 <input type="checkbox"/>
m. Teaching	1 <input type="checkbox"/>	2 <input type="checkbox"/>
n. Other (<i>Specify:</i> _____)	1 <input type="checkbox"/>	2 <input type="checkbox"/>

A26. On which TWO activities in A25, did you work the MOST hours during a typical week on this job?

ENTER LETTER OF APPROPRIATE ACTIVITY FROM A25

- Activity MOST hours
- Activity SECOND MOST hours
(Enter Z if no second most)

A27. Did you supervise the work of others as part of this job?

- Answer yes if you assign duties to workers and recommend or initiate personnel actions such as hiring, firing, or promoting

- 1 Yes
- 2 No ⇒ **SKIP TO A29**

A28. (IF YES) How many people did you typically:

- | | <u>Number Supervised</u> |
|---|--------------------------|
| a. supervise <u>directly</u> ? | _____ |
| b. supervise through subordinate supervisors? | _____ |

A29. Before deductions, what was your salary on this job as of the week of April 15? [Do not include bonuses, overtime, or additional compensation for summertime teaching or research]

- If NOT salaried: Please estimate your earned income, excluding business expenses

MARK ONE

- | | |
|-------------------------|---|
| \$_____ per | 1 <input type="checkbox"/> Hour |
| Salary or Earned Income | 2 <input type="checkbox"/> Week |
| | 3 <input type="checkbox"/> Month |
| | 4 <input type="checkbox"/> Year |
| | 5 <input type="checkbox"/> Academic Year |
| | 6 <input type="checkbox"/> Other (<i>Specify:</i>
_____) |

A30. Was this salary or earned income based on working full-time?

- If self-employed, please answer yes if you usually worked 35 or more hours a week on this job

- 1 Yes
- 2 No

A31. Was any of your work on this job supported by contracts or grants from the U.S. government during the week of April 15?

- Federal employees please answer "No"

MARK ONE

- 1 Yes
- 2 No } **SKIP TO A33**
- 3 Don't Know }

A32. (IF YES) Which Federal agencies or departments were supporting your work?

MARK ALL THAT APPLY

- 01 Agency for International Development (AID)
- 02 Agriculture Department
- 03 Commerce Department
- 04 Defense Department (DOD)
- 05 Education Department (include NCES, OERI, FIPSE, FIRST)
- 06 Energy Department (DOE)
- 07 Environmental Protection Agency (EPA)
- 08 Health and Human Services Department (excluding NIH)
- 09 Housing and Urban Development Department (HUD)
- 10 Interior Department
- 11 Justice Department
- 12 Labor Department
- 13 National Aeronautics and Space Administration (NASA)
- 14 National Institutes of Health (NIH)
- 15 National Science Foundation (NSF)
- 16 Nuclear Regulatory Commission (NRC)
- 17 State Department
- 18 Transportation Department (DOT)
- 19 Veterans Administration
- 20 Other (*Specify:* _____)
- 21 DONT KNOW SOURCE AGENCY

The following 3 questions provide information for the U.S. Department of Energy

A33. From the following list of selected areas, indicate the ONE area, if any, to which you devoted the MOST hours during a typical week on this job.

MARK ONE

- 01 Energy/Fuel
- 02 Environment } **SKIP TO A36 (PAGE 6)**
- 03 Health/Safety
- 04 National Defense
- 05 NONE OF THE ABOVE

A34. (IF ENERGY/FUEL) From the following list, indicate the ONE ENERGY SOURCE that involved the largest proportion of your energy-related work during the past year.

MARK ONE

- 01 Coal
- 02 Petroleum and natural gas
- 03 Nuclear fission
- 04 Nuclear fusion
- 05 Hydroenergy
- 06 Other Renewables (such as solar, biomass, wind, geothermal)
- 07 Other energy source (*Specify:* _____)

A35. From the following list, indicate the ONE ENERGY-RELATED ACTIVITY that involved the largest proportion of your energy-related work during the past year.

MARK ONE

- 01 Exploration and extraction
- 02 Manufacture of energy-related equipment
- 03 Fuel processing (include refining and enriching)
- 04 Electric power generation and transmission
- 05 Transportation and distribution of fuel
- 06 Waste management or decommissioning
- 07 Conservation, utilization, management, or storage of energy/fuel
- 08 Environment, health, and safety
- 09 Other energy-related activity, (*Specify:* _____)

A36. During the week of April 15, did you hold a second job (or business), including part-time, evening, or weekend work?

1 Yes

2 No ⇒ **SKIP TO PART B (PAGE 7)**

A37. (IF YES) What kind of work were you doing at your second job during the week of April 15--that is, what was your occupation? Please be as specific as possible, including any area of specialization.

- Example: College professor - Electrical engineering
- If you had more than two jobs, answer for the job at which you worked the second greatest number of hours that week

A38. Using the JOB CODES (pp. 14-15) choose the code that BEST describes the work you were doing on your second job during the week of April 15.

____ CODE

A39. Before deductions, what was your salary on your second job during the week of April 15? [Do not include bonuses, overtime, or additional compensation for summertime teaching or research.]

- If NOT salaried: Please estimate your earned income, excluding business expenses

\$_____ per
Salary or Earned Income

MARK ONE

1 Hour

2 Week

3 Month

4 Year

5 Academic Year

6 Other (*Specify:*

_____)

A40. To what extent was your work on this second job related to your first doctoral degree awarded in the U.S.? Was it...

MARK ONE

1 Closely related

2 Somewhat related

3 Not related

PART B - Past Employment

The next few questions will help us better understand how employment behavior changes over time. We will be asking you to think back 5 years ago to your employment activities during April 1988.

B1. Thinking back 5 years, were you working for pay (or profit) during any part of April 1988?

- If you were a student: count jobs required as part of a financial aid award (e.g., work study/ assistantships), but do not count financial aid awards with no work requirement

- 1 Yes
2 No ⇒ **SKIP TO PART C (PAGE 9)**

B2. (IF YES) Did you have the SAME principal employer during both April 1988 and the week of April 15, 1993?

- If self-employed at both times: Answer "Yes"

- 1 Yes, same employer ⇒ **SKIP TO B6**
2 No, different employer or had no employer during the week of April 15, 1993

B3. (IF NO) Was your principal employer during April 1988 an educational institution?

- 1 Yes
2 No ⇒ **SKIP TO B5**

B4. (IF EDUCATIONAL INSTITUTION) Was this educational institution...

MARK ONE

- 1 An elementary, middle, or secondary school or system
2 A 2-year college, junior college, technical institute
3 A 4-year college or university, other than a medical school
4 A medical school (including university-affiliated hospital or medical center)
5 A university-affiliated research institute
6 Other (*Specify:* _____) **SKIP TO B6**

B5. (IF NOT EDUCATIONAL INSTITUTION) Was your employment during April 1988 with...

MARK ONE

- 01 A Private for Profit company, business or individual, working for wages, salary or commissions
02 A Private Not-for-Profit, tax-exempt, or charitable organization
03 Self-Employed in own NOT INCORPORATED business, professional practice, or farm
04 Self-Employed in own INCORPORATED business, professional practice, or farm
05 Local government (city, county, etc.)
06 State government
07 U.S. military service, active duty or Commissioned Corps (e.g., USPHS, NOAA)
08 U.S. government (civilian employee)
09 Other (*Specify:* _____)

B6. Was your principal occupation during April 1988 the SAME as the principal occupation you reported for the week of April 15, 1993?

- 1 Yes, same occupation ⇒ **SKIP TO B9 (PAGE 8)**
2 No, different occupation or was not employed during week of April 15, 1993

B7. (IF NO) What kind of work were you doing on your principal job held during April 1988--that is, what was your occupation? Please be as specific as possible, including any area of specialization.

- Example: College professor - Electrical engineering

B8. Using the JOB CODES (pp. 14-15), choose the code that BEST describes the work you were doing on your principal job during April 1988.

____|____|____|____| CODE

B9. Did you have the SAME employer and SAME occupation in April 1988 and during the week of April 15, 1993?

- 1 Yes ⇒ **SKIP TO PART C (PAGE 9)**
- 2 No, not employed during the week of April 15, 1993 ⇒ **SKIP TO PART C (PAGE 9)**
- 3 No

B10. (IF NOT SAME) Did these factors influence your decision to change employers or occupations between April 1988 and the week of April 15, 1993?

MARK YES OR NO FOR EACH

	<u>YES</u>	<u>NO</u>
a. Pay, promotion opportunities	1 <input type="checkbox"/>	2 <input type="checkbox"/>
b. Working conditions (hours, equipment, working environment)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
c. Job location	1 <input type="checkbox"/>	2 <input type="checkbox"/>
d. Change in career or professional interests	1 <input type="checkbox"/>	2 <input type="checkbox"/>
e. Family-related reasons	1 <input type="checkbox"/>	2 <input type="checkbox"/>
f. School-related reasons (e.g., returned to school, completed a degree)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
g. Laid off or job terminated	1 <input type="checkbox"/>	2 <input type="checkbox"/>
h. Retired	1 <input type="checkbox"/>	2 <input type="checkbox"/>
i. Other (<i>Specify:</i> _____)	1 <input type="checkbox"/>	2 <input type="checkbox"/>

B11. Since receiving your first U.S. doctorate, have you ever spent 3 months or more conducting research in a country other than the United States?

- 1 Yes ⇒ **SKIP TO PART C (PAGE 9)**
- 2 No

B12. (IF NO) Would you ever consider conducting research in a country other than the United States?

MARK ONE

- 1 Yes
- 2 No
- 3 Does not apply: My work does not lend itself to conducting research in or outside the United States ⇒ **SKIP TO PART C (PAGE 9)**

B13. (IF APPLIES) How much, if at all, would your interest in conducting research outside the U.S. increase with...

MARK ONE FOR EACH

	<u>A Great Deal</u>	<u>Some- what</u>	<u>Not At All</u>
a. Better financial support?	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
b. Better foreign language training opportunities?	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
c. Better access to information on foreign research opportunities (e.g., funding sources, research activities)	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
d. Better sabbatical leave policy?	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
e. Family-related reasons?	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
f. Other (<i>Specify:</i> _____)	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

PART C - Other Work-Related Information

C1. How many years of professional work experience have you had:

- If none or less than half a year: Enter 0

Number
of Years

- a. Full-time _____
- b. Part-time _____

C2. During the past year, did you attend any professional society or association meetings or conferences?

- Include regional, national, or international meetings

- 1 Yes
- 2 No

C3. To how many national or international professional societies or associations do you currently belong?

Number: OR NONE

C4. During the past year, did you attend any WORK-RELATED workshops, seminars, or other work-related training activities?

- Do not include college courses - these will be discussed in PART D
- Do not include professional meetings unless you attended a special training session conducted at the meeting/conference

- 1 Yes ⇒ **GO TO C5**
- 2 No ⇒ **SKIP TO PART D (PAGE 10)**

C5. (IF YES) During the past year, in which of the following areas did you attend work-related workshops, seminars, or other work-related training activities?

MARK YES OR NO FOR EACH

- | | <u>YES</u> | <u>NO</u> |
|--|----------------------------|----------------------------|
| a. Management or supervisor training | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| b. Technical training in my occupational field | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| c. General professional training (e.g., public speaking, business writing) | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| d. Other work-related training (<i>Specify:</i>
_____) | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |

C6. For which of the following reasons did you attend training activities during the past year?

MARK YES OR NO FOR EACH

- | | <u>YES</u> | <u>NO</u> |
|---|----------------------------|----------------------------|
| a. To facilitate a change in my occupational field | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| b. To acquire <u>further</u> skills or knowledge in my occupational field | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| c. For licensure/certification | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| d. To increase opportunities for promotion/advancement/higher salary | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| e. To learn skills or knowledge needed for a recently acquired position | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| f. Required or expected by employer | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| g. Other (<i>Specify:</i>
_____) | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |

C7. What was your most important reason for attending training activities? ENTER LETTER OF APPROPRIATE REASON FROM C6

MOST IMPORTANT REASON FROM C6

PART D - Education Since First U.S. Doctorate

D1. What is the highest degree, if any, that you have COMPLETED since receiving your first U.S. doctorate?

MARK ONE

0 HAVE NOT COMPLETED A DEGREE SINCE (FIRST) DOCTORATE ⇒ **SKIP TO D5**

- 1 MBA
- 2 Master's
- 3 Other doctorate
- 4 JD, LLB, LLM
- 5 MD
- 6 Other professional degree
- 7 Other degree (*Specify:* _____)

D2. What was your primary field of study?

MARK THIS BOX (X) IF NO PRIMARY FIELD OF STUDY

Primary Field of Study: _____

D3. In what year was this degree awarded?

19 ____|____|
Year

D4. Were any of your school-related costs for completing this degree paid for by an employer?

- 1 Yes
- 2 No

D5. Between completing your most recent degree and the week of April 15, 1993, did you take any college or university courses?

- 1 Yes ⇒ **GO TO D6**
- 2 No ⇒ **SKIP TO PART E (PAGE 11)**

D6. (IF YES) For which of the following reasons did you take college courses between completing your most recent degree and the week of April 15, 1993?

MARK YES OR NO FOR EACH

	<u>YES</u>	<u>NO</u>
a. To acquire further education before beginning a career	1 <input type="checkbox"/>	2 <input type="checkbox"/>
b. To prepare for graduate school	1 <input type="checkbox"/>	2 <input type="checkbox"/>
c. To facilitate a change in my academic or occupational field	1 <input type="checkbox"/>	2 <input type="checkbox"/>
d. To acquire <u>further</u> skills or knowledge in my academic or occupational field	1 <input type="checkbox"/>	2 <input type="checkbox"/>
e. For licensure/certification	1 <input type="checkbox"/>	2 <input type="checkbox"/>
f. To increase opportunities for promotion/advancement/higher salary	1 <input type="checkbox"/>	2 <input type="checkbox"/>
g. Required or expected by employer	1 <input type="checkbox"/>	2 <input type="checkbox"/>
h. For leisure/personal interest	1 <input type="checkbox"/>	2 <input type="checkbox"/>
i. Other (<i>Specify:</i> _____)	1 <input type="checkbox"/>	2 <input type="checkbox"/>

D7. Between completing your most recent degree and the week of April 15, what was your primary field of study?

MARK THIS BOX (X) IF NO PRIMARY FIELD OF STUDY

Primary Field of Study: _____

D8. Were any of your school-related costs for taking college or university courses during this time paid for by an employer?

- 1 Yes
- 2 No

PART E - Background Information

E1. In what month and year were you born?

| 19
 Month Year

E2. In what U.S. state or territory were you born? (If outside the United States: Record country)

State/Territory: _____

OR

Foreign Country: _____

E3. Did you live in a rural or farming community at any time prior to reaching the age of 18?

- 1 Yes
- 2 No

E4. What is the highest level of education completed by your parents?

MARK ONE FOR EACH PARENT

	Father (Stepfather or <u>Male Guardian</u>)	Mother (Stepmother or <u>Female Guardian</u>)
--	--	--

- | | | |
|--|-----------------------------|-----------------------------|
| Less than high school diploma | 01 <input type="checkbox"/> | 01 <input type="checkbox"/> |
| High school diploma or equivalent | 02 <input type="checkbox"/> | 02 <input type="checkbox"/> |
| Some college, vocational or trade school | 03 <input type="checkbox"/> | 03 <input type="checkbox"/> |
| Graduated from a 2-year college (Associate's degree) | 04 <input type="checkbox"/> | 04 <input type="checkbox"/> |
| Graduated from a 4-year college (Bachelor's degree) | 05 <input type="checkbox"/> | 05 <input type="checkbox"/> |
| At least some graduate or professional school | 06 <input type="checkbox"/> | 06 <input type="checkbox"/> |
| Master's degree or equivalent (including MBAs) | 07 <input type="checkbox"/> | 07 <input type="checkbox"/> |
| PhD, MD, JD, or other advanced degree | 08 <input type="checkbox"/> | 08 <input type="checkbox"/> |
| Don't know | 98 <input type="checkbox"/> | 98 <input type="checkbox"/> |

E5. Are you of Hispanic origin or descent?

- 1 Yes
- 2 No ⇒ **SKIP TO E7**

E6. Which of the following categories BEST describes your Hispanic descent? (If more than one category applies, please select the one you consider the most important part of your background)

MARK ONE

- 1 Mexican, Mexican-American, Chicano
- 2 Puerto Rican
- 3 Cuban
- 4 Other Hispanic (*Specify:*

_____)

E7. Are you:

MARK ONE

- 1 White
- 2 Black/African American
- 3 Asian or Pacific Islander
- 4 American Indian, Alaskan Native (Eskimo, Aleut)
- 5 Other (*Specify:*

_____)

E8. Are you:

- 1 Male
- 2 Female

E9. During the week of April 15 were you a:

MARK ONE

U.S. Citizen

- 1 Native Born ⇒ **SKIP TO E12**
- 2 Naturalized ⇒ **SKIP TO E11**

Non-U.S. Citizen

- 3 With a Permanent U.S. Resident Visa
- 4 With a Temporary U.S. Resident Visa
- 5 Living outside the United States

E10. (IF NON-U.S. CITIZEN) Of which country are you a citizen?

COUNTRY: _____

OFFICE USE: |_|_|_|_|

E11. When did you come to the United States to stay?

19 |_|_| OR Never came to stay
Year

E12. During the week of April 15, 1993, were you living in the United States or one of its territories, or were you living in another country?

- 1 United States
- 2 Another country

E13. During the week of April 15 were you:

MARK ONE

- 1 Married ⇒ **GO TO E14**
 - 2 Widowed
 - 3 Separated
 - 4 Divorced
 - 5 Never Married
- } → **SKIP TO E16**

E14. (IF MARRIED) During the week of April 15, was your spouse working for pay (or profit) at a full-time or part-time job?

- 01 Yes, full-time
- 02 Yes, part-time
- 03 No ⇒ **SKIP TO E16**

E15. (IF YES) Did your spouse's duties on this job require technical expertise equivalent to at least a bachelor's degree in . . .

- | | <u>YES</u> | <u>NO</u> |
|--|----------------------------|----------------------------|
| a. Engineering, computer science, math, or the natural sciences, | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| b. The social sciences, | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |
| c. Some other field (<i>Specify:</i>) | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> |

E16. During the week of April 15, did you have any children living with you as part of your family?

- Only count children who lived with you at least 50 percent of the time. Students who board at school should be counted if they spend at least half of their vacation time with you.

- 1 Yes
- 2 No ⇒ **SKIP TO E18 (PAGE 13)**

E17. (IF YES) How many of these children living with you as part of your family were . . .

- If no children in a category: Enter 0

NUMBER

- |_| Under the age of 6
- |_| Aged 6-11
- |_| Aged 12-17
- |_| 18 or older

The next question is designed to help us better understand the career paths of individuals with different physical abilities.

E18. What is the usual degree of difficulty you have with...

MARK ONE FOR EACH

	<u>None</u>	<u>Slight</u>	<u>Moderate</u>	<u>Severe</u>	<u>Unable to Do</u>
a. <u>Seeing</u> words or letters in ordinary newsprint (with glasses/contact lenses if you usually wear them)	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
b. <u>Hearing</u> what is normally said in conversation with another person (with hearing aid, if you usually wear one)	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
c. <u>Walking</u> without assistance (human or mechanical) or using stairs	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
d. <u>Lifting</u> or carrying something as heavy as 10 pounds, such as a bag of groceries	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>

E19. MARK THIS BOX (X) IF YOU ANSWERED "NONE" TO ALL ACTIVITIES IN E18 AND THEN SKIP TO E20

What is the earliest age at which you first began experiencing any difficulties in any of these areas?

AGE: OR SINCE BIRTH

E20. In case we need to clarify some of the information you have provided, please list a phone number where you can be reached.

Area Code Number
-- Daytime

Area Code Number
-- Evenings

E21. Since we are interested in how education and employment change over time, we may be recontacting you in 1995. To help us find you, please provide the name, address, and telephone number of someone who is likely to know where you can be reached. DO NOT INCLUDE SOMEONE WHO LIVES IN YOUR HOUSEHOLD

- As with all the information provided in this questionnaire, complete confidentiality will be provided. This person will only be contacted if we cannot find you in 1995.

Name

Number and Street

_____|_____|_____
City/Town State Zip Code

Country (If outside U.S.)

--
Area Code Number

E22. Is the address information on the back cover the best one for us to use for any future mailing?

- 1 Yes 2 No - Please make needed changes on back cover

JOB CODES

This list is ordered alphabetically. The titles in bold type are broad job categories. To make sure you have found the BEST code, please review all broad categories before making your choice. If you cannot find the code that BEST describes your job, use the "OTHER" code under the most appropriate broad category in bold print. If none of the codes fit your job, use Code 500.

010 **Artists, Broadcasters, Editors, Entertainers, Public Relations Specialists, Writers**

Biological/Life Scientists

- 021 Agricultural and food scientists
- 022 Biochemists and biophysicists
- 023 Biological scientists (e.g., botanists, ecologists, zoologists)
- 024 Forestry, conservation scientists
- 025 Medical scientists (excluding practitioners)
- 026 Technologists & technicians in the biological/life sciences
- 027 OTHER biological/life scientists

Clerical/Administrative Support

- 031 Accounting clerks, bookkeepers
- 032 Secretaries, receptionists, typists
- 033 OTHER administrative (e.g., record clerks, telephone operators)

040 **Clergy & Other Religious Workers**

Computer Occupations (Also see 173)

- *** Computer engineers (See 087, 088 under Engineering)
- 051 Computer programmers (business, scientific, process control)
- 052 Computer system analysts
- 053 Computer scientists, except system analysts
- 054 Information systems scientists or analysts
- 055 OTHER computer, information science occupations

- *** **Consultants** (select the code that comes closest to your usual area of consulting)

070 **Counselors, Educational & Vocational** (Also see 236)

Engineers, Architects, Surveyors

- 081 Architects
- *** Engineers (Also see 100-103)
- 082 Aeronautical, aerospace, astronautical
- 083 Agricultural
- 084 Bioengineering & biomedical
- 085 Chemical
- 086 Civil, including architectural & sanitary

- *** Engineers (continued)
- 087 Computer engineer - hardware
- 088 Computer engineer - software
- 089 Electrical, electronic
- 090 Environmental
- 091 Industrial
- 092 Marine engineer or naval architect
- 093 Materials or metallurgical
- 094 Mechanical
- 095 Mining or geological
- 096 Nuclear
- 097 Petroleum
- 098 Sales
- 099 Other engineers
- *** Engineering Technologists and Technicians
- 100 Electrical, electronic, industrial, mechanical
- 101 Drafting occupations, including computer drafting
- 102 Surveying and mapping
- 103 OTHER engineering technologists and technicians
- 104 Surveyors

110 **Farmers, Foresters & Fishermen**

Health Occupations

- 111 Diagnosing/Treating Practitioners (e.g., dentists, optometrists, physicians, psychiatrists, podiatrists, surgeons, veterinarians)
- 112 Registered nurses, pharmacists, dieticians, therapists, physician assistants
- 113 Health Technologists & Technicians (e.g., dental hygienists, health record technologist/technicians, licensed practical nurses, medical or laboratory technicians, radiologic technologists/technicians)
- 114 OTHER health occupations

120 **Lawyers, Judges**

130 **Librarians, Archivists, Curators**

Managers, Executives, Administrators (Also see 151-153)

- 141 Top and mid-level managers, executives, administrators (people who manage other managers)
- *** All other managers, including the self-employed - *Use the code that comes closest to the field you manage*

JOB CODES (CONTINUED)

Management-Related Occupations (Also see 141)

- 151 Accountants, auditors, and other financial specialists
- 152 Personnel, training, and labor relations specialists
- 153 OTHER management related occupations

Mathematical Scientists

- 171 Actuaries
- 172 Mathematicians
- 173 Operations research analysts, modelling
- 174 Statisticians
- 175 Technologists and technicians in the mathematical sciences
- 176 OTHER mathematical scientists

Physical Scientists

- 191 Astronomers
- 192 Atmospheric and space scientists
- 193 Chemists, except biochemists
- 194 Geologists, including earth scientists
- 195 Oceanographers
- 196 Physicists
- 197 Technologists and technicians in the physical sciences
- 198 OTHER physical scientists

*** Research Associates/Assistants

(Select the code that comes closest to your field)

Sales and Marketing

- 200 Insurance, securities, real estate, & business services
- 201 Sales Occupations - Commodities Except Retail
(e.g., industrial machinery/equipment/supplies, medical and dental equip/supplies)
- 202 Sales Occupations - Retail
(e.g., furnishings, clothing, motor vehicles, cosmetics)
- 203 OTHER marketing and sales occupations

Service Occupations, Except Health (Also see 111-114)

- 221 Food Preparation and Service (e.g., cooks, waitresses, bartenders)
- 222 Protective services (e.g., fire fighters, police, guards)
- 223 OTHER service occupations, except health

Social Scientists

- 231 Anthropologists
- 232 Economists
- 233 Historians, science and technology
- 234 Historians, except science and technology
- 235 Political scientists
- 236 Psychologists, including clinical (Also see 070)
- 237 Sociologists
- 238 OTHER social scientist

240 Social Workers

Teachers/Professors

- 251 Pre-Kindergarten and kindergarten
- 252 Elementary
- 253 Secondary - computer, math, or sciences
- 254 Secondary - social sciences
- 255 Secondary - other subjects
- 256 Special education - primary and secondary
- 257 OTHER precollegiate area
- *** Postsecondary
 - 271 Agriculture
 - 272 Art, Drama, and Music
 - 273 Biological Sciences
 - 274 Business Commerce and Marketing
 - 275 Chemistry
 - 276 Computer Science
 - 277 Earth, Environmental, and Marine Science
 - 278 Economics
 - 279 Education
 - 280 Engineering
 - 281 English
 - 282 Foreign Language
 - 283 History
 - 284 Home Economics
 - 285 Law
 - 286 Mathematical Sciences
 - 287 Medical Science
 - 288 Physical Education
 - 289 Physics
 - 290 Political Science
 - 291 Psychology
 - 292 Social Work
 - 293 Sociology
 - 294 Theology
 - 295 Trade and Industrial
 - 296 OTHER health specialties
 - 297 OTHER natural sciences
 - 298 OTHER social sciences
 - 299 OTHER Postsecondary

Other Professions

- 401 Construction trades, miners & well drillers
- 402 Mechanics and repairers
- 403 Precision/production occupations
(e.g., metal workers, woodworkers, butchers, bakers, printing occupations, tailors, shoemakers, photographic process)
- 404 Operators and related occupations
(e.g., machine set-up, machine operators and tenders, fabricators, assemblers)
- 405 Transportation/material moving occupations

500 Other Occupations (Not Listed)

Thank you for completing the questionnaire. Please return the completed form in the envelope provided. If you lose the envelope and want another, call 1-800-248-8649. Our address is:

**National Research Council
GR 415
2101 Constitution Avenue, NW
Washington, DC 20418**