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

(A 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):

   ______________________________________________________________________

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

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

MARK ONE

1 □ A Private for Profit company, business or individual, working for wages, salary or commissions
2 □ A Private Not-for-Profit, tax-exempt, or charitable organization
3 □ Self-Employed in own NOT INCORPORATED business, professional practice, or farm
4 □ Self-Employed in own INCORPORATED business, professional practice, or farm
5 □ Local government (city, county, etc.)
6 □ State government
7 □ U.S. military service, active duty or Commissioned Corps (e.g., USPHS, NOAA)
8 □ U.S. government (civilian employee)
9 □ 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...

\[ \text{YES} \quad \text{NO} \]

\begin{enumerate}
\item \text{Engineering, computer science, math or the natural sciences} ...
\item \text{The social sciences} \\
\end{enumerate}

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

\[ \text{MARK ONE} \]

\begin{enumerate}
\item ☐ Licensure, certification not recommended or required
\item ☐ Yes
\item ☐ No
\end{enumerate}

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...

\[ \text{MARK ONE} \]

\begin{enumerate}
\item ☐ Closely related  \quad \text{SKIP TO A25}
\item ☐ Somewhat related
\item ☐ Not related
\end{enumerate}

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?

\[ \text{MARK YES OR NO FOR EACH} \]

\begin{enumerate}
\item Pay, promotion opportunities .......
\item Working conditions (hours, equipment, working environment) .......
\item Job location .......
\item Change in career or professional interests .......
\item Family-related reasons .......
\item Job in doctoral degree field not available .......
\item Other reason (Specify: ........................) .......
\end{enumerate}

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

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

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

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

<table>
<thead>
<tr>
<th>Number Supervised</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. supervise directly?</td>
</tr>
<tr>
<td>b. supervise through subordinate supervisors?</td>
</tr>
</tbody>
</table>

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 ☐ Hour
2 ☐ Week
3 ☐ Month
4 ☐ Year
5 ☐ Academic Year
6 ☐ Other (Specify: ________________________)

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 □ DON'T 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 ))))))))},
- 03 □ Health/Safety *
- 04 □ National Defense */ SKIP TO A36
- 05 □ NONE OF THE ABOVE * (PAGE 6)

**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.]

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

MARK ONE

$__________ per Salary or Earned Income
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:______________________)

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

MARK ONE

☐ A Private for Profit company, business or individual, working for wages, salary or commissions
☐ A Private Not-for-Profit, tax-exempt, or charitable organization
☐ Self-Employed in own NOT INCORPORATED business, professional practice, or farm
☐ Self-Employed in own INCORPORATED business, professional practice, or farm
☐ Local government (city, county, etc.)
☐ State government
☐ U.S. military service, active duty or Commissioned Corps (e.g., USPHS, NOAA)
☐ U.S. government (civilian employee)
☐ 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)

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

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Pay, promotion opportunities</td>
<td>□</td>
</tr>
<tr>
<td>b. Working conditions (hours, equipment, working environment)</td>
<td>□</td>
</tr>
<tr>
<td>c. Job location</td>
<td>□</td>
</tr>
<tr>
<td>d. Change in career or professional interests</td>
<td>□</td>
</tr>
<tr>
<td>e. Family-related reasons</td>
<td>□</td>
</tr>
<tr>
<td>f. School-related reasons (e.g., returned to school, completed a degree)</td>
<td>□</td>
</tr>
<tr>
<td>g. Laid off or job terminated</td>
<td>□</td>
</tr>
<tr>
<td>h. Retired</td>
<td>□</td>
</tr>
<tr>
<td>i. Other (Specify: ________________________)</td>
<td>□</td>
</tr>
</tbody>
</table>

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?

□ Yes  SKIP TO PART C (PAGE 9)
□ No

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

MARK ONE

□ Yes
□ No

□ 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

A Great Some- Not Deal what At All

<table>
<thead>
<tr>
<th>□</th>
<th>□</th>
<th>□</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Better financial support?</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>b. Better foreign language training opportunities?</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>c. Better access to information on foreign research opportunities (e.g., funding sources, research activities)</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>d. Better sabbatical leave policy?</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>e. Other (Specify: ________________________)</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>
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

   YES   NO

   a. Management or supervisor training . . . . ;□ ;□
   b. Technical training in my occupational field . . . . ;□ ;□
   c. General professional training (e.g., public speaking, business writing) . . . . ;□ ;□
   d. Other work-related training (Specify:
      _________________________) . . . . ;□ ;□

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

   MARK YES OR NO FOR EACH

   YES   NO

   a. To facilitate a change in my occupational field . . . . ;□ ;□
   b. To acquire further skills or knowledge in my occupational field . . . . ;□ ;□
   c. For licensure/certification . . . . ;□ ;□
   d. To increase opportunities for promotion/advancement/higher salary . . ;□ ;□
   e. To learn skills or knowledge needed for a recently acquired position . . . . ;□ ;□
   f. Required or expected by employer . . . . ;□ ;□
   g. Other (Specify:
      _________________________) . . . . ;□ ;□

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

   |___| MOST IMPORTANT REASON FROM C6
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

YES  NO

a. To acquire further education before beginning a career ............ 1 □ 2 □
b. To prepare for graduate school ........ 1 □ 2 □
c. To facilitate a change in my academic or occupational field ........ 1 □ 2 □
d. To acquire further skills or knowledge in my academic or occupational field ........ 1 □ 2 □
e. For licensure/certification ........ 1 □ 2 □
f. To increase opportunities for promotion/advancement/higher salary ........ 1 □ 2 □
g. Required or expected by employer ...... 1 □ 2 □
h. For leisure/personal interest ........ 1 □ 2 □
i. Other (Specify: ____________________________) 1 □ 2 □

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

<table>
<thead>
<tr>
<th>Father (Stepfather or Male Guardian)</th>
<th>Mother (Stepmother or Female Guardian)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than high school diploma ...... 01 ☐</td>
<td>01 ☐</td>
</tr>
<tr>
<td>High school diploma or equivalent .... 02 ☐</td>
<td>02 ☐</td>
</tr>
<tr>
<td>Some college, vocational or trade school .... 03 ☐</td>
<td>03 ☐</td>
</tr>
<tr>
<td>Graduated from a 2-year college (Associate’s degree) 04 ☐</td>
<td>04 ☐</td>
</tr>
<tr>
<td>Graduated from a 4-year college (Bachelor’s degree) 05 ☐</td>
<td>05 ☐</td>
</tr>
<tr>
<td>At least some graduate or professional school .... 06 ☐</td>
<td>06 ☐</td>
</tr>
<tr>
<td>Master’s degree or equivalent (including MBAs) .... 07 ☐</td>
<td>07 ☐</td>
</tr>
<tr>
<td>PhD, MD, JD, or other advanced degree .... 08 ☐</td>
<td>08 ☐</td>
</tr>
<tr>
<td>Don't know .... 98 ☐</td>
<td>98 ☐</td>
</tr>
</tbody>
</table>

E5. Are you of Hispanic origin or descent?

* ☐ Yes

* ☐ 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
4 ☐ With a Permanent U.S. Resident Visa
5 ☐ With a Temporary U.S. Resident Visa
6 ☐ 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  )))

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?

+1 ☐ Yes, full-time
+1 ☐ Yes, part-time
* ☐ 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 . . .

YES       NO

a. Engineering, computer science, math, or the natural sciences, ...........
1 ☐ 2 ☐

b. The social sciences, .....................
1 ☐ 2 ☐

c. Some other field (Specify: .............)
1 ☐ 2 ☐

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...**

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

**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.**

<table>
<thead>
<tr>
<th>Area Code</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[Daytime]

<table>
<thead>
<tr>
<th>Area Code</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[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.

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number and Street</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City/Town</th>
<th>State</th>
<th>Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country (If outside U.S.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area Code</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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)**
- 051 Computer programers (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
- 082 Aeronautical, aerospace, astronautical
- 083 Agricultural
- 084 Bioengineering & biomedical
- 085 Chemical
- 086 Civil, including architectural & sanitary

**Engeineers (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, physican 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**
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 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