1995 SURVEY OF DOCTORATE RECIPIENTS

Conducted by the National Research Council for The National Science Foundation

We solicit this information under the authority of the National Science Foundation Act of 1950, as amended. Your response is entirely voluntary and failure to provide some or all the requested information will not in any way adversely affect you. Actual time to complete the questionnaire may vary depending on your circumstances. On the average, it will take about 25 minutes to complete the questionnaire. If you have any comments on the time required for this survey, please send them to Herman Fleming, Division of Contracts, Policy and Oversight, National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230; or to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project 3145-0020, Washington, DC 20503.

OMB NO: 3145-0020

APPROVAL EXPIRES: 3/31/97

Note: The format of this title page has been altered to reduced WEB download time.

INSTRUCTIONS

Thank you for taking the time to complete this questionnaire. 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, 1995 (e.g., April 9-15, 1995) when answering most questions
- Follow all "SKIP" instructions AFTER marking a box. 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 9-15, 1995

			IN THIS BOX \Rightarrow 0 \square AND SKIP TO PART D, PAGE 13
A1.	Were you working for pay (or profit) during the week of April 15, 1995? This includes a postdoctoral appointment, being self-employed or temporarily absent from a job (e.g., illness, vacation or parental leave), even if unpaid.		LAST WORKED _ 19 Year
	1 \Box Yes ⇒ SKIP to A7, page 2		
	2 □ No	A5.	What kind of work were you doing on this last
ţ			jobthat is, what was your occupation? Please be as specific as possible, including any area of specialization.
A2.	$(IF\ NO)$ Did you look for work at any time during the four weeks preceding April 15, 1995 (that is, any time between March 19 and April 15, 1995)?		Example: College professor - Electrical engineering
	¹ □ Yes		
	2 □ No		
А3.	What were your reasons for not working during the week of April 15?		
	Mark (X) all that apply Year Retired	A6.	Using the JOB CATEGORIES LIST (pages 16-17 choose the code that BEST describes the work
	□ Retired • 19		you were doing on this last job.
	2 □ On layoff from a job		
	3 □ Student		CODE $ \underline{\hspace{0.4cm}} $ \Rightarrow SKIP to A49, page 8
	4 ☐ Family responsibilities		
	5 ☐ Chronic illness or permanent disability		
	6 □ Suitable job not available		
	7 ☐ Did not need or want to work		
	$_8 \square$ Other - Specify:		
		Ī	

A4.

Prior to the week of April 15, 1995, when did you

IF NEVER WORKED FOR PAY (OR PROFIT), MARK (X)

last work for pay (or profit)?

47 .	(IF WORKED DURING WEEK OF APRIL 1 Counting <i>all</i> jobs held during the week 1995, did you USUALLY work	· · · · · · · · · · · · · · · · · · ·	(IF 35 OR MORE HOURS) Although you were working during the week of April 15, had you previously RETIRED from any position?
	A total of 35 or more hours per week \Rightarrow <i>SKIP to A10</i>		Examples of retirement include mandatory retirement, early retirement, or voluntary retirement
	Fewer than 35 hours per week		$_{1}$ □ Yes \Rightarrow 19 YEAR RETIRED $_{2}$ □ No
48.	(IF FEWER THAN 35 HOURS) During the April 15, did you want to work a full-tim week of 35 or more hours?	e week of PR	3 · · · · · · · · · · · · · · · · · · ·
	1 □ Yes 2 □ No		week of April 15, 1995? IF MORE THAN ONE JOB: Record employer for whom you worked the most hours that week IF EMPLOYER HAD MORE THAN ONE LOCATION: Record location where you
A 9.	What were your reasons for working a work week (i.e., less than 35 hours) dur week of April 15? Mark (X) all that apply		usually worked Employer Name: City/Town:
	Retired or semi-retired Year 19		State/Foreign Country: ZIP Code:
	2 □ Student3 □ Family responsibilities	A12.	Counting all locations where this employer operates, how many people work for your
	4 ☐ Chronic illness or permanent disability → SKI	TP to A11	principal employer? Your best estimate is fine. $Mark(X) \ one$
	5 ☐ Suitable full-time work week job not available		 □ Under 10 employees □ 10-24 employees
	6 ☐ Did not need or want to work full-time		 3 □ 25-99 employees 4 □ 100-499 employees
	7 Other - Specify:		 5 □ 500-999 employees 6 □ 1,000-4,999 employees 7 □ 5,000+ employees

A13.		your principal employer during the week of I 15	A16.	What was your faculty rank?			
	orgai	MPLOYER WAS A SCHOOL: Mark (X) the type of nizational charter (e.g., mark "State government" rate schools, most private schools are "private not-for-t")		Mark (X) one 1 □ Not applicable at this institution 2 □ Not applicable for my position			
A14.	1	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:	A 17.	Associate Professor Assistant Professor Instructor Lecturer Adjunct Faculty Other - Specify: Mark (X) one Not applicable: no tenure system at this institution Not applicable: no tenure system for my position Tenured On tenure track but not tenured Not on tenure track			
		tution?					
Y A15.		Yes No ⇒ SKIP to A18 DUCATIONAL INSTITUTION) Was this cational institution	A18.	principal job held during the week of April 15, 1995that is, what was your occupation? Please be as specific as possible, including any area of specialization.			
	Mark	x(X) one		Example: College professor - Electrical engineering			
	1 🗆	A preschool, elementary, or middle school or system SKIP to A18					
	2 □ 3 □	A secondary school or system A 2-year college, junior college,					
	4	or technical institute A 4-year college or university, other than a medical school A medical school (including university-affiliated hospital or medical center)	A19.	 Using the JOB CATEGORIES LIST (pages 16-17), choose the code that BEST describes the work you were doing on your principal job during the week of April 15. 			
	6 🗌	A university-affiliated research institute		CODE			
	7 🗌	Other - Specify:		NOTE - Job codes go from 010 to 500			

A20.	Did you record job code "141" (manager, executive, or administrator) in A19? 1 □ Yes 2 □ No ⇒ SKIP to A22	A24.	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 (X) one Closely related SKIP to A27, page 5 Somewhat related
A21.	(IF YES) Did your duties on this job require the technical expertise of a bachelor's degree or higher in Mark (X) Yes or No for each		3 □ Not related
	YES NO 1. Engineering, computer science, math, or the natural sciences	A25.	(IF NOT RELATED) Did these factors influence your decision to work in an area OUTSIDE THE FIELD OF YOUR FIRST U.S. DOCTORAL DEGREE?
	2. The social sciences \square \square \square \square		Mark (X) Yes or No for each YES NO
	3. Some other field (for example, health or business) - <i>Specify:</i> ₁ □ 2 □		 Pay, promotion opportunities
			3. Job location
			4. Change in career or professional interests
A22.	During what month and year did you start this job, (that is, your principal job held during the week of April 15, 1995)?		5. Family-related reasons (children, spouse's job moved) ₁ □ 2 □
			6. Job in highest degree field not available
	JOB STARTED 19		7. Other reason - <i>Specify</i> :
A23.	As of the week of April 15, were you licensed or certified in your occupation? Do NOT include academic degrees (e.g., BA, MA, PhD) 1 Yes	A26.	Which TWO factors in A25 represents your MOST important reasons for working in an area outside of your first U.S. doctoral degree? Enter number of appropriate REASON from A25 above. 1 MOST important reason
	2 □ No		2 SECOND MOST important reason (Enter "0" if no second most)

on	e next question is about your work a your principal job. Which of the foll rk activities occupied 10 percent or	lowing	g	A29.	In A28, did you record "2" or "3" or "5" or "6" (applied/basic research or development/design)?				
	ur time during a TYPICAL work weel				ı □ Yes				
•	rk (X) Yes or No for each	YES	NO		$_2 \square$ No \Rightarrow SKIP to A31				
1.	Accounting, finance, contracts	1	2 🗆	↓ A30.	(IF YES) In what field was your research-related				
2.	Applied research - study directed toward gaining scientific knowledge to meet a recognized need	1 🗆	2 🗆		work being conducted? Field:				
3.	Basic research - study directed toward gaining scientific knowledge primarily for its own sake	1 🗆	2 🗆						
4.	Computer applications, programming, systems development	1 🗆	2 🗆	A31.	During a typical week on this job, in which, if any of the following areas or technologies, were you				
5.	Development - using knowledge gained from research for the production of materials, devices	1 🗆	2 🗆		working? Mark (X) Yes or No for each				
6.	Design of equipment, processes, structures, models		2 🗆		YES NO 1. Flexible manufacturing, robotics 1				
7.	Employee relations - including recruiting, personnel development, training	ı [2 🗆		2. Advanced materials				
8.	Managing and supervising		2 🗆		3. Biotechnology				
	Production, operations, maintenance (e.g., truck driving, machine tooling, auto/machine repairing)		2 🗆		4. Micro or opto-electronics, Semiconductor devices				
10.	Professional services (health care, counseling, financial services, legal services, etc.)				5. High performance computing 1				
11.	Sales, purchasing, marketing, customer service, public relations		2 🗆		7. Sensor and signal processing 1 \(\sigma \) 2 \(\sigma \)				
12.	Quality or productivity management	1 🗆	2 🗆						
13.	Teaching	1 🗆	2 🗌	A32.	Since April 1990, how many				
14.	Other - Specify:	1 🗆	2 🗌		IF NONE, enter "0"				
	which TWO activities in A27, did you MOST hours during a typical week				Number 1. Papers have you authored or co-authored for presentation at regional, national or international conferences? (Do not count presentation of the same work more than once)				
Ent	er number of appropriate ACTIVITY fron Activity MOST hours	n A27 :	above.		2. Articles that you have authored or co-authored have been accepted for publication in a refereed professional journal?				
2.	Activity SECOND MOST h (Enter "0" if no second most								

A33.	inventor on any application for a U.S. patent?	A38.		ng a typical week on this job, now many s did you usually work?			
	ı □ Yes		Nu	mber of Hours Per Week			
	$_{2} \square \text{No} \Rightarrow SKIP \text{ to } A35$						
↓ A34.	(IF YES) Since April 1990	A39.		ding paid vacation and paid sick leave, upon many weeks per year was your salary d?			
	Number 1. How many applications for U.S. patents have named you as inventor?		Nu	mber of Weeks Per Year			
	2. How many U.S. patents have been granted to you as an inventor?3. How many of the patents recorded as GRANTED (recorded in category 2 above)	A40.	your OR G	ng the week of April 15, 1995, was any of work on this job supported by CONTRACTS RANTS from the U.S. government?			
	have resulted in commercialized products or processes or have been licensed?			ERAL EMPLOYEES: Please answer "No" (X) one			
		l	1 🗆	Yes			
A35.	Did you supervise the work of others as part of your principal job held during the week of April 15, 1995?			No————————————————————————————————————			
	Answer "YES" if you assigned duties to workers AND recommended or initiated personnel actions such as hiring, firing, or promoting	A41.	(IF YI	ES) Which Federal agencies or departments supporting your work?			
	TEACHERS: Do NOT count students						
	ı □ Yes			(X) all that apply			
	$_2 \square$ No \Rightarrow SKIP to A37			Agency for International Development (AID)			
↓				Agriculture Department			
A36.	$(IF\ YES)$ How many people did you typically			Commerce Department			
	IF NONE, enter "0"			Defense Department (DOD)			
	Number			Department of Education (include NCES, OERI, FIPSE, FIRST)			
	Supervised		6 🗆	Energy Department (DOE)			
	1. supervise DIRECTLY?		7 🗌	Environmental Protection Agency (EPA)			
	2. supervise through subordinate supervisors?			Health and Human Services Department (EXCLUDING NIH)			
• • •			9 🗌	Interior Department			
A37.	Before deductions, what was your basic ANNUAL salary on this job as of the week of April 15, 1995? [Do NOT include bonuses, overtime, or			National Aeronautics and Space Administration (NASA)			
	additional compensation for summertime		11 🗆	National Institutes of Health (NIH)			
	teaching or research]			National Science Foundation (NSF)			
	IF NOT SALARIED: Please estimate your earned income, excluding business expenses			Transportation Department (DOT)			
	meome, excluding business expenses		14 🗌	Other - Specify:			
	\$00 Basic Annual Salary/Earned Income		15 🗆	DON'T KNOW SOURCE AGENCY			

The following 3 questions provide information

	The fo	ollowing 3 questions provide information for the U.S. Department of Energy	A45.	During the week of April 15, 1995, were you working for pay (or profit) at a second job (or business), including part-time, evening, or
				weekend work?
A42.	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.			ı □ Yes
		Energy or Fuel Environment Food or Agriculture Health or Safety National Defense Transportation NONE OF THE ABOVE	A46.	2 □ No ⇒ SKIP to A49, page 8 (IF YES) What kind of work were you doing at your second job during the week of April 15that is, what was your occupation? Please be as specific as possible, including any area of specialization. Example: College professor - Electrical engineering
A43.	indi the	ENERGY OR FUEL) From the following list, cate the ONE ENERGY SOURCE that involved largest proportion of your energy-related k during the past year.		IF YOU HAD MORE THAN TWO JOBS that week answer for the job where you worked the second most hours
	Mari	k (X) one		
	1	Coal		
	2 🗆	Petroleum and natural gas		
	з 🗌	Nuclear fission		
	4 🔲	Nuclear fusion		
	5 🗌	Hydroenergy	A47.	Using the JOB CATEGORIES LIST (pages 16-17)
	6 🗌	Other Renewables (such as solar, biomass, wind, geothermal)		choose the code that BEST describes the work you were doing on your second job during the week of April 15.
	7 🗌	Other energy source - Specify:		week of April 15.
A44.	ENE larg	m the following list, indicate the ONE RGY-RELATED ACTIVITY that involved the est proportion of your energy-related work ng the past year.		CODE _
	Mari	k (X) one		
	1 🗆	Exploration and extraction	A48.	To what extent was your work on this second job related to your first doctoral degree awarded in
	2 🗌	Manufacture of energy-related equipment		the U.S.? Was it
	3 🗆	Fuel processing (include refining and enriching)		Mark (X) one
	4 🔲	Electric power generation and transmission		
	5 🗌	Transportation and distribution of fuel		□ Closely related
	6 🗌	Waste management or decommissioning		
	7 🗌	Conservation, utilization, management, or storage of energy or fuel		2 ☐ Somewhat related
	8 🗆	Environment, health, and safety		₃ □ Not related
	9 🗌	Other energy-related activity - Specify:		

Questions A49-51 ask about your work for pay (or profit) in 1994

A49.	Turning now to 1994, including paid vacation and paid sick leave, how many weeks did you work in 1994?	B1.	Were you working for pay (or profit) during BOTH of these time periodsthe week of April 15, 1993, AND the week of April 15, 1995?					
	IF NONE, MARK (X) THIS BOX \Rightarrow 0 \square AND SKIP TO B1			ou were a STUDENT: Do NOT count financial and with no work requirement	aid			
	Number of Weeks Worked	B2.	2 🗆	Yes $No \Rightarrow \textit{SKIP to Part C, page 9}$ YES) During these two time periodsthe	e weel			
			we	April 15, 1993, and the week of April 15, are you working for	1995			
A50.	During the weeks you worked in 1994, how many hours a week did you usually work?		1 🗆	$rk(X)$ one Same employer AND same job \Rightarrow SKIP to Papage 9	ert C,			
	Number of Hours Worked			Same employer BUT different job Different employer BUT same job Different employer AND different job				
		B3.		DIFFERENT) Why did you change your ployer or your job?				
			Ма	rk (X) Yes or No for each				
A51.	Counting all jobs held, what was your TOTAL EARNED income, BEFORE deductions for 1994?		1.	YES Pay, promotion opportunities \Box	NC			
	Include all wages, salaries, bonuses, overtime, commissions, consulting fees, net income from business summertime teaching or research, post		2.	Working conditions (hours, equipment, working environment) □	2 🗆			
	business, summertime teaching or research, post doctoral appointment, or other work associated with scholarships			Job location 1 □ Change in career or professional interests 1 □	2 🗆			
	\$00 Total 1994 Earned Income		5.	Family-related reasons (e.g., children, spouse's job moved)	2 🗆			
			6.	School-related reasons (e.g., returned to school, completed a degree) $\dots $	2 🗆			
	IF YOU HAD NO EARNED		7.	Laid off or job terminated (includes company closings, mergers, buyouts) ₁ □	2 🗆			
	INCOME IN 1994, MARK (X) THIS BOX \Rightarrow 0		8.	Retired 1	2			

PART B - Past Employment

The next few questions will help us better understand employment changes over time.

The next few questions ask about your work experience since completing your (first) doctoral degree.

C1. Please review the JOB CATEGORIES LIST on pages 16-17. Using that list, please record codes in Column 1 for those job categories where you have had ONE OR MORE YEARS OF WORK EXPERIENCE since completing your (first) doctoral degree (a single job category code can represent several jobs). Next, complete Columns 2-5 for each job category recorded in Column 1.

Example: Chris was a regional sales director for a computer hardware company between 1980 and 1986. In 1986 she was offered a job teaching marketing at a local college, something she had always wanted to try and that would allow more time with her family. Between 1986 and 1995, she had taught at three different colleges. Chris would enter: Row Col 1 Col 3 Col 4 Col 5 First 141 Sales Director, computer hardware company 1980 and 1986 6 years 3,4 Second 274 Professor - Marketing 1986 and 1995 9 years 9

WORK EXPERIENCE SINCE (FIRST) DOCTORAL DEGREE									
Col 1 Job Category Codes (pages 16-17) Group jobs by job category codes, only use a job category code ONCE If more than 3 job category codes apply: Pick the 3 where you have worked the longest	Col 2 Brief Description of Work Done	Col 3 Starting and Ending Dates Working continually in the same job category between the two dates is not necessary	Col 4 Total Years of Work Experience Estimate using full-time equivalency (FTE)	Col 5 Two Most Important Reasons for Leaving Write appropriate numbers from the "Reasons for Leaving" box below					
CODE 1		FROM 19 TO 19	Year(s)	Most 2nd most important (Specify for category 10)					
CODE 2		FROM 19 TO 19	Year(s)	Most 2nd most important (Specify for category 10)					
CODE 3		FROM 19 TO 19	Year(s)	Most 2nd most important (Specify for category 10)					

REASONS FOR LEAVING (for use in Column 5 above)							
 Pay, promotion, benefits Working conditions (hours, equipment, working environment) Change in career/professional interests Family (children, spouse's job moved) School (completed degree, returned to school, etc.) 	 6. Did not enjoy the work 7. Job ended/suitable job in my field not available 8. Retired 9. Still working in that field 10. Other - Specify above 						

C2.	Since completing not working?	your (first) doctoral o	degree,	, have	you ha	d any p	periods of	6 months	or more	where yo	ou were
	ı □ Yes										
	$_2$ □ No \Rightarrow <i>SKIP to</i>	C4									
C3.	(IF YES) Please pr fine.	ovide the following in	nforma	tion fo	or each	period	of 6 mont	hs or long	ger. You	r best gu	ess is
	DATES NOT	WORKING		R	EASON	S FOR	NOT WOR	KING - M	ark (X) ali	that apply	
	FROM	<u>TO</u>	Retired		Layoff/Job Ended (Company Closed)	Full-Time Student Not Working	Family Responsibilities	Chronic Illness or Permanent Disability	Suitable Job Not Available	Did Not Need or Want to Work	Other
N	Ionth Year	Month Year									
1	. _ 19 _	_ 19 _	ı [2 🗆	3 🗌	4 🗆	5 🗌	6 🗆	7 🗆	8 🗆
2	. _ 19 _	19	ı [2 🗆	3 🗌	4 🗆	5 🗌	6 🗆	7 🗆	8 🗆
3	. 19	_ 19	1 🗆		2 🗆	3 🗌	4 🗆	5 🗆	6 🗆	7 🗆	8 🗆
C4.	C4. How much would your work benefit from the following? Mark (X) one for each A Great Deal 1. Long distance communications with colleagues outside the U.S.			Not at All	C6.	(IF YES) How long was your last trip outside the United States to work or conduct research? 1 □ Less than 7 days 2 □ 7 to 30 days 3 □ 1 to 6 months 4 □ More than 6 months					
	2. Short-term visits locations (days or	to non-U.S.	2 🗆	3 🗆	C7.	rese	NO) Why hearch outsi	de the Un			ucted
	3. Long-term visit to locations (6 mont		2 🗆	3 🗆		1	Not relevant No interest No time	nt to my car			
C5.	traveled outside t conduct research	-	ork or	/er		4 ☐ 5 ☐ 6 ☐	Unable to in Concerned U.S. job mulium Unaware o	about losii arket	ng my plac		
	DO NOT INCIDE	nternational conferen	ices.			7 🗌	Lack of for		_		
	¹ □ Yes					8 🗆	Family-rela		S		
	$_2$ □ No \Rightarrow <i>SKIP to</i>	<i>C</i> 7				9 🗌	Other - Spe	ecify:			

C8.	C8. Since completing your (first) doctoral degree how many "postdocs," if any, have you held? A "postdoc" (postdoctoral appointment) is a temporary position awarded in academe, industry, or government primarily for gaining additional education and training in research.								
	NUMBER:								
	OR IF NONE, MARK THIS BOX $\rightarrow 0$	AND S	KIP TO C12						
C9.	Please provide the following info	orma	tion for each postdoc recorded in (C8. I	Please include any postdoc you				
I	MOST RECENT OR CURRENT POSTDOC		SECOND MOST RECENT POSTDOC		THIRD MOST RECENT POSTDOC				
A.	A. Date postdoc started and ended (or you left) IF CURRENTLY IN POSTDOC: Enter "00" for year ended		Date postdoc started and ended (or you left)	A. Date postdoc started and ended (or you left)					
	Month Year		Month Year		Month Year				
	Started: 19		Started: 19		Started: 19				
	Ended: 19		Ended: 19		Ended: 19				
В.	What was your primary reason for taking this postdoc? <i>Mark (X) one</i> 1 □ Additional training in PhD field 2 □ Training in an area outside of PhD field 3 □ Work with a specific person or place 4 □ Other employment not available 5 □ Other - Specify:	В.	What was your primary reason for taking this postdoc? Mark (X) one □ Additional training in PhD field □ Training in an area outside of PhD field □ Work with a specific person or place □ Other employment not available □ Other - Specify:	В.	What was your primary reason for taking this postdoc? Mark (X) one 1 □ Additional training in PhD field 2 □ Training in an area outside of PhD field 3 □ Work with a specific person or place 4 □ Other employment not available 5 □ Other - Specify:				
C.	In what field were you working? Please be as specific as possible	C.	C. In what field were you working? Please be as specific as possible		In what field were you working? Please be as specific as possible				
D.	Which sector BEST describes where you worked Mark (X) one □ Educational institution? □ Business/Industry? □ Government (any level)? □ Other - Specify:?	D.	Which sector BEST describes where you worked Mark (X) one □ Educational institution? □ Business/Industry? □ Government (any level)? □ Other - Specify:?	D.	Which sector BEST describes where you worked Mark (X) one □ Educational institution? □ Business/Industry? □ Government (any level)? □ Other - Specify:?				
Е.	For this postdoc, did you receive	E.	For this postdoc, did you receive	E.	For this postdoc, did you receive				
F.	Was this postdoc the result of winning a national competition?	F.	Was this postdoc the result of winning a national competition? 1 Yes 2 No	F.	Was this postdoc the result of winning a national competition? 1 □ Yes 2 □ No				
		I		I					

C 10.	a postdoc position?				C 13.	following areas did you attend work-related		
	$_1$ □ Yes \Rightarrow <i>SKIP to C12</i>					workshops, seminars, or other work-rela		
	2 □ No					training activities?		
C11.	How relevant was your (most recent) postdoc to your work on your principal job held during the week of April 15?					Mark (X) Yes or No for each Y	ES NC	
	IF NOT WORKING FOR PAY OR PROFIT THE WEEK					1. Management or supervisor training 1	□ 2 □	
	OF APRIL 15: Use your "last job"		,,			2. Training in your occupational field 1	□ 2 □	
	Mark(X) one for each					2 Canaral professional training (a.g.		
	Postdoc Features		Relevance to Job			3. General professional training (e.g., public speaking, business writing) 1	2 🗆	
		A Great Deal	Some-what	Not at All		4. Other work-related training - <i>Specify:</i> 1	2 🗆	
	1. Subject matter knowledge or expertise?	. 1 🗆	↓ 2 □	₃ □				
	2. Use of specific skills or techniques?	. 1 🗆	2 🗆	3 🗆	C16.	For which of the following reasons did y	ou attend	
	3. Contacts established with colleagues in your field?	. 1 🗆	2 🗆	3 🔲		training activities during the past year?		
	4. Use of specialized equipment?	. 1 🗆	2 🗆	3 🗌		Mark (X) Yes or No for each	ES NO	
	5. General approach or problem					1. To facilitate a change in your	\downarrow \downarrow	
	solving skills?		2	3 □ 3 □		occupational field	□ 2 □	
						2. To gain FURTHER skills or knowledge		
C12.	During the past year, did you atte professional society or associati or conferences?					in your occupational field		
	Include regional, national, or internation	onal me	eetings			4. To increase opportunities for		
	ı □ Yes					promotion/advancement/		
	2 □ No					higher salary 1	2 🗆	
C13.	To how many national or internal professional societies or associa					5. To learn skills or knowledge needed for a recently acquired position	☐ 2 ☐	
	you currently belong? Number					6. Required or expected by employer	□ 2 □	
	OR					7. Other - <i>Specify:</i>	□ 2 □	
	□NONE							
C14.	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				C17.	What was your most important reason for attending training activities? Enter number of appropriate REASON from C16 above		
	Do NOT include professional meetings you attended a special training session at the meeting/conference					MOST IMPORTANT REASON from C16		
	1 \Box Yes \Rightarrow GO to C15							
	$_2$ □ No \Rightarrow SKIP to part D, page 13							

PART D - Background Informa	ation	ì
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	PART D - Background Information	D6.	From which academic institution did you receive this degree or certificate?
D1.	were you primarily taking classes or doing research, etc. (e.g., English, chemistry)?	D7.	School name: City/Town: State/Foreign country: What was your primary field of study during that time? IF NO PRIMARY FIELD OF STUDY, MARK (X) THIS BOX → 0
	DEPARTMENT:		Primary Field of Study:
D3.	Between April 1993 and April 1995, did you complete a degree or certificate?	D8.	For which of the following reasons were you taking classes or enrolled between April 1993 and April
	$_2 \square \text{No} \Rightarrow SKIP \text{ to } D7$		1995?
∳ D4.	(IF YES) In what month and year was this degree or certificate awarded? IF YOU COMPLETED MORE THAN ONE: Enter the date for the highest degree or certificate awarded 19		 Mark (X) Yes or No for each YES NO 1. To gain further education before beginning a career 1 □ 2 □ 2. To prepare for graduate school 1 □ 2 □ 3. To change your academic or occupational field 1 □ 2 □
	Month Year		4. To gain FURTHER skills or knowledge in your academic or occupational field ₁ □ 2 □
D5.	What type of degree or certificate did you receive? IF MORE THAN ONE APPLIES: Mark the		 For licensure/certification
	highest level		8. For leisure/personal interest
	Mark (X) one		9. Other - <i>Specify:</i>
	□ Bachelor's degree		
	 Post baccalaureate certificate Master's degree (including MBA) Post master's certificate Doctorate Other professional degree (e.g., JD, LLB, THD, MD, DDS, etc.) 		
			Were ANY of your school-related costs for taking college or university courses during this time paid for by an employer? 1 □ Yes
	$7 \square \text{Other - } Specify:$		2 □ No

D10.	As of the week of April 15 were you	D14.	you as part of your family were
	Mark (X) one		IF NO CHILDREN IN A CATEGORY, enter "0"
	□ Married		Number of
	2 □ Widowed □		Children
	3 ☐ Separated —► SKIP to D13		1. Under age 2
	4 □ Divorced		2. Aged 2-5 3. Aged 6-11
	5 □ Never Married — □		4. Aged 12-17
			5. Aged 18 or older
↓ D11.	(IF MARRIED) During the week of April 15,		
D11.	was your spouse working for pay (or profit) at a full-time or part-time job?	D15.	During the week of April 15, 1995, were you living in the United States or one of its territories, or
	¹ ☐ Yes, full-time		were you living in another country?
	² □ Yes, part-time		□ United States or one of its territories
	$_3 \square$ No \Rightarrow SKIP to D13		² □ Another country
† D12.	(IF YES) Did your spouse's duties on this job require the technical expertise of a bachelor's	D16.	As of the week of April 15, 1995 were you a
	degree or higher in		Mark (X) one
	Mark (X) Yes or No for each		U.S. Citizen
	1. Engineering, computer science, math or the natural sciences,		Native Born SKIP to D18 Naturalized
	2. The social sciences,		Non-U.S. Citizen
	3. Some other field (e.g., health or		$_3$ \square With a Permanent U.S. Resident Visa
	business) - Specify:	Ц	4 ☐ With a Temporary U.S. Resident Visa
		-	5 ☐ Living outside the United States
D13.	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	D17.	(IF NON-U.S. CITIZEN) Of which country are you a citizen? COUNTRY:
	of the time		
	$_1$ □ Yes \Rightarrow GO to D14	D10	What is your hirthdato?
	$_2 \square$ No \Rightarrow SKIP to D15	D18.	What is your birthdate? 19 Month Day Year
			Monui Day I cal

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

D19. What is the USUAL degree of difficulty you have with... MARK (X) ONE FOR EACH None Slight Moderate Severe Unable to Do 1. SEEING words or letters in ordinary newsprint (with glasses/contact lenses if you usually 2 3 🔲 4 5 🔲 2. HEARING what is normally said in conversation with another person (with hearing aid, if you 2 3 4 5 🗌 3. WALKING without human or mechanical assistance 2 🔲 3 🔲 4 5 4. LIFTING or carrying something as heavy as 2 3 🔲 4 🔲 5 🔲 D20. If you answered "none" TO ALL ACTIVITIES in D19, mark (X) this box → 0 □ and SKIP to D22 D21. What is the earliest age at which you FIRST began experiencing ANY difficulties in any of these areas? AGE: |___| OR 0 □ SINCE BIRTH D22. In case we need to clarify some of the information you have provided, please list a phone number where you can be reached. Evening: Daytime: Area Code Number Area Code Number _|__|_| D23. Since we are interested in how education and employment change over time, we may be recontacting you in 1997. To help us contact you, please provide the name, address, and telephone number of two people who are 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. These people will only be contacted if we have trouble contacting you in 1997. First Name MI Last Name First Name MI Last Name Number and Street Number and Street City/Town Zip Code City/Town Zip Code State State Country (If outside U.S.) Country (If outside U.S.)

D24. PLEASE TURN TO THE BACK COVER FOR THE LAST QUESTION (D25).

JOB CATEGORIES LIST

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 and conservation scientists
- 025 Medical scientists (excluding practitioners)
- 026 Technologists & technicians in the biological/life sciences
- 027 OTHER biological/life scientists

Clerical/Administrative Support

- Accounting clerks, bookkeepers
- 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 engineer
 - 083 Agricultural engineer
 - 084 Bioengineering & biomedical engineer
 - 085 Chemical engineer
 - 086 Civil, including architectural & sanitary engineer

- Engineers (continued)
 - 087 Computer engineer hardware
 - 088 Computer engineer software
 - 089 Electrical, electronic engineer
 - 090 Environmental engineer
 - 091 Industrial engineer
 - 092 Marine engineer or naval architect engineer
 - 093 Materials or metallurgical engineer
 - 094 Mechanical engineer
 - 095 Mining or geological engineer
 - 096 Nuclear engineer
 - 097 Petroleum engineer
 - 098 Sales engineer
 - 099 Other engineer
- 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

- Diagnosing/Treating Practitioners (e.g., dentists, optometrists, physicians, psychiatrists, podiatrists, surgeons, veterinarians)
- 112 Registered nurses, pharmacists, dieticians, therapists, physician assistants
- 236 Psychologists, including clinical
- 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 Select the code that comes closest to the field you manage

JOB CATEGORIES LIST (CONTINUED)

Management-Related Occupations (Also see 141)

- 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
- Technologists and technicians in the physical sciences 197
- OTHER physical scientists 198

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)
- Sociologists 237
- OTHER social scientist
- 240 Social Workers

Teachers/Professors

- Pre-Kindergarten and kindergarten
- 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 Sciences274 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

- 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)

 Yes No → Please make name and address changes as needed below. Please print 	
and address changes as needed	
clearly.	
Title First name Middle initial Last name	
Number and street/Apartment No. City/town State ZIP Code	Plus 4

Is the name and address information on the label the best one for us to

D25.

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 TJ 1021 2101 Constitution Avenue, NW Washington, DC 20418