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SURID



2021 Survey of Doctorate Recipients

Conducted by



The National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation (NSF) and the National Institutes of Health (NIH)

Data collection activities are contracted to Westat

Please make any name/address changes below:

First Name

Middle Name

Last Name

Number and Street Address

City

State

ZIP/Postal Code

Territory/Country (if non-U.S.)

This questionnaire has been annotated to aid data users in matching SDR datafile variables to the SDR questionnaire.

Text boxes with a solid border next to questionnaire items contain names of SAS variables populated with responses to that question.

Variables derived from reported information (i.e., recodes) are noted in text boxes with a dashed border and are placed near the variables or questions used to create the recodes.

In addition, the SDR datafile includes variables pulled from other data sources such as the Doctorate Records File that do not appear in this annotated questionnaire. These data are documented in the codebook.

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended, and the Confidential Information Protection and Statistical Efficiency Act of 2002. Per the Federal Cybersecurity Enhancement Act of 2015, your data are protected from cybersecurity risks through screening of the federal systems that transmit your data. The information you provide will be used for statistical purposes only. Your responses will be kept confidential. Your response is voluntary and failure to provide some or all of the requested information will not in any way adversely affect you. The average time to complete this survey is about 25 minutes. Please send any comments on the time required for this survey to National Science Foundation, 2415 Eisenhower Avenue, Alexandria, VA 22314, Attn: NSF Reports Clearance Officer.

OMB No.: 3145-0020
Approval Expires: 07/31/2024



INSTRUCTIONS

Thank you for taking the time to complete this questionnaire.

- Please use a black or blue pen to complete this form.
- Mark ☒ to indicate your answer. If you want to change your answer, darken the box ☒ and mark the correct answer.
- In order to get comparable data, we will be asking you to refer to the week of February 1, 2021, when answering most questions.
- Follow all appropriate skip instructions after marking a box. If no skip instruction is provided, you should continue to the next question.
- If you have any questions or concerns, please email us at SDR@westat.com or call us toll-free at 1-855-460-5324 or locally at 301-637-8195.

Thank you again for your help; we really appreciate it.

Part A - Employment Situation

A1. During the week of February 1, 2021, were you working for pay or profit?

WKRG

LFSTAT

Working for pay or profit also includes being self-employed and not getting paid that week, on a postdoctoral appointment, traveling while employed, or on any type of paid or unpaid leave, including vacation or during a government shutdown.

☐ Yes → Go to question A8

☐ No

A2. Did you look for work during the four weeks preceding February 1, 2021 (that is, between January 4th and February 1st)?

LOOKWK

☐ Yes

☐ No

A3. During the week of February 1, 2021, what were your reasons for not working?

Mark Yes or No for each item.

NWOTF combines codes 1, 7, and 10

Yes No

1. Retired..... ☐ ☐

Year retired

If Yes →

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2. On layoff from a job due to the coronavirus pandemic..... ☐ ☐

NWLAYCOV

3. On layoff from a job for reasons unrelated to the coronavirus pandemic..... ☐ ☐

NWLAY

4. Student..... ☐ ☐

NWSTU

5. Family responsibilities due to the coronavirus pandemic (e.g., childcare, eldercare)..... ☐ ☐

NWFAMCOV

6. Family responsibilities unrelated to the coronavirus pandemic..... ☐ ☐

NWFAM

7. Chronic illness or permanent disability..... ☐ ☐

NWOCNA

8. Suitable job not available..... ☐ ☐

NWNOND

9. Did not need or want to work..... ☐ ☐

10. Other reason – specify..... ☐ ☐

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A4. Prior to the week of February 1, 2021, when did you last work for pay or profit?

☐ Never worked for pay or profit → Go to page 10, question D1

Month

Year

Last worked

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A5. Prior to the week of February 1, 2021, what was the title of the last job you held?

Example: Physics professor

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A6. What kind of work were you doing on this last job – that is, what were your duties and responsibilities? Please be as specific as possible, including any area of specialization.

Example: Taught physics and conducted research. Specialized in high energy physics.

A7. Using the JOB CATEGORY list on pages 16-17, choose the code that best describes the last job you held prior to the week of February 1, 2021.

Code

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 → Go to page 8, question A42

N2OCMLST

A8. Although you were working during the week of February 1, 2021, had you previously retired from any position?

FTPRET

Examples of retirement include mandatory retirement, early retirement, or voluntary retirement.

Year retired

☐ Yes →

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☐ No



Principal Employer

A9. During the week of February 1, 2021, who was your principal employer?

EMUS

EMGRP

If you had more than one job, report the one for which you worked the most hours that week.

If your employer had more than one location, report the location that employed you.

If you worked for a contracting or consulting company, report the name of that company, not the client organization.

If you were an independent contractor or self-employed, report your name and address as the principal employer.

Employer Name

Department/Division

City

State

ZIP/Postal Code

Territory/Country (if non-U.S.)

A10. During the week of February 1, 2021, which one of the following best describes your principal employer?

EMSECDT EMSECSM EMTTP

Mark one answer.

SELF-EMPLOYED OR A BUSINESS OWNER

- ☐ 1 Non-incorporated business, professional practice, or farm
- ☐ 2 Incorporated business, professional practice, or farm

PRIVATE SECTOR EMPLOYEE

- ☐ 3 For-profit company or organization
- ☐ 4 Non-profit organization (including tax-exempt and charitable organizations)

U.S. GOVERNMENT EMPLOYEE

- ☐ 5 Local government in the U.S. (e.g., city, county, school district)
- ☐ 6 U.S. state government (including U.S. state colleges/universities)
- ☐ 7 U.S. military service, active duty or Commissioned Corps (e.g., USPHS, NOAA)
- ☐ 8 U.S. federal government (e.g., civilian employee)

OTHER TYPE OF EMPLOYEE

- ☐ 10 Non-U.S. government at any level

- ☐ 9 Other – *specify*

NEDTPP
combines
codes 7
and 8

A11. What was your employer's main business or industry – that is, what did that employer make or do?

If your principal employer had more than one type of business, report the type of business primarily performed at the location where you worked.

Example: Production of microprocessor chips

Employer's main business



A12. Counting all locations where this employer operates, how many people work for your principal employer? Your best estimate is fine.

EMSIZE

Mark one answer.

- ☐ 1 10 or fewer employees
- ☐ 2 11 - 24 employees
- ☐ 3 25 - 99 employees
- ☐ 4 100 - 499 employees
- ☐ 5 500 - 999 employees
- ☐ 6 1,000 - 4,999 employees
- ☐ 7 5,000 - 24,999 employees
- ☐ 8 25,000 or more employees

A13. Did your principal employer come into being as a new business within the past 5 years?

NEWBUS

- ☐ 1 Yes
- ☐ 2 No

A14. Was your principal employer an educational institution?

EMED

- ☐ 1 Yes
- ☐ 2 No → Go to page 4, question A19

A15. What type of educational institution was it?

EDTP

Mark one answer.

- ☐ 1 Preschool, elementary, middle, or secondary school or system
- ☐ 2 Two-year college, community college, or technical institute
- ☐ 3 Four-year college or university, other than a medical school
- ☐ 4 Medical school (including university-affiliated hospital or medical center)
- ☐ 5 University-affiliated research institute
- ☐ 6 Other – specify

Go to
page 4,
question
A19

A16. During the week of February 1, 2021, what type of academic position(s) did you hold at this institution?

ACADNA

Mark Yes or No for each item.

Yes No
▼ ▼

- | | | |
|---|----------------------------|----------------------------|
| 1. President, Provost or Chancellor (any level)..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| 2. Dean (any level), department head or department chair..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| 3. Research faculty, scientist, associate or fellow..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| 4. Teaching faculty..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| 5. Adjunct faculty..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| 6. Postdoc (e.g., postdoctoral fellow or associate)..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| 7. Research assistant..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| 8. Teaching assistant..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| 9. Other academic position – specify..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| <div></div> | | |
| 10. I was not in an academic position..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |

ACADAMN
combines
codes 1
and 2

ACADRCHE

ACADTCHF

ACADADJF

ACADPDOG

ACADOTHP
combines
codes 7, 8,
and 9

ACADNA

A17. What was your faculty rank?

FACRANK

Mark one answer.

- ☐ 1 Not applicable: no ranks designated at this institution
- ☐ 2 Not applicable: no ranks designated for my position
- ☐ 3 Professor
- ☐ 4 Associate Professor
- ☐ 5 Assistant Professor
- ☐ 6 Instructor
- ☐ 7 Lecturer
- ☐ 8 Other – specify

A18. What was your tenure status?

TENSTA

Mark one answer.

- ☐ 1 Not applicable: no tenure system at this institution
- ☐ 2 Not applicable: no tenure system for my position

Year tenured

- ☐ 3 Tenured →
- ☐ 4 On tenure track but not tenured
- ☐ 5 Not on tenure track

Principal Job

A19. During the week of February 1, 2021, what was the title of the principal job you held?

Example: Physics professor

A20. What kind of work were you doing on this job – that is, what were your duties and responsibilities on your principal job? Please be as specific as possible, including any area of specialization.

*Example: Taught physics and conducted research.
Specialized in high energy physics.*

	PDTRAIN
	PDTROUT
	PDPERPL
	PDEMPPL
	PDEXPECT
	PDOTHER

A21. Using the JOB CATEGORY list on pages 16-17, choose the code that best describes the principal job you held during the week of February 1, 2021.

Code

N2OCPRMG

N2OCPRNG

A22. Did your duties on this job require the technical expertise of a bachelor's degree or higher in...

Mark Yes or No for each item.

Yes No

MGRNAT	1. Engineering, computer science, math, or the natural sciences.....	1	2
MGRSOC	2. The social sciences.....	1	2
MGROTH	3. Some other field (e.g., health, business, or education) – <i>specify</i>	1	2

A23. Was this job a “postdoc”?

PDIX

A “postdoc” is a temporary position awarded in academe, industry, a non-profit organization, or government primarily for gaining additional education and training in research.

1 Yes

2 No → **Go to question A26**

A24. What were your reasons for taking this postdoc?

Mark Yes or No for each item.

Yes No

1. Additional training in Ph.D. field.....	1	2
2. Training in an area outside of Ph.D. field.....	1	2
3. Work with a specific person or in a specific place.....	1	2
4. Other employment not available.....	1	2
5. Postdoc generally expected for a career in this field.....	1	2
6. Some other reason – <i>specify</i>	1	2

A25. Which two reasons in question A24 were your most important reasons for taking this postdoc?

Enter number of appropriate reason from question A24 above.

a. Most important reason

PDPRI

b. Second most important reason
(Enter “0” if no second reason)

PDSEC

A26. During what month and year did you start this job (that is, the principal job you held during the week of February 1, 2021)?

Principal job started

Month	Year
<input type="text"/>	<input type="text"/>



A27. To what extent was your work on your principal job related to your first U.S. doctoral degree? Was it...

Mark one answer.

- ☐ 1 Closely related
☐ 2 Somewhat related
☐ 3 Not related

Go to question A30

A28. Did any of the following 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 item.

Yes No

- NRPAY** 1. Pay, promotion opportunities..... ☐ 1 ☐ 2
- NRCON** 2. Working conditions (e.g., hours, equipment, working environment)..... ☐ 1 ☐ 2
- NRLOC** 3. Job location..... ☐ 1 ☐ 2
- NRCHG** 4. Change in career or professional interests..... ☐ 1 ☐ 2
- NRFAM** 5. Family-related reasons (e.g., children, spouse's job moved)..... ☐ 1 ☐ 2
- NROCNA** 6. Job in doctoral degree field not available..... ☐ 1 ☐ 2
- NROT** 7. Some other reason – *specify*..... ☐ 1 ☐ 2

A29. Which two factors in question A28 were your most important reasons for working in an area outside the field of your first U.S. doctoral degree?

Enter number of appropriate reason from question A28 above.

- NRREA** a. Most important reason
- NRSEC** b. Second most important reason
(Enter "0" if no second reason)

A30. The next question is about your work activities on your principal job. Which of the following work activities occupied at least 10 percent of your time during a typical work week on this job?

Mark Yes or No for each item.

- ACTCAP** **ACTDED** **ACTMGT** **ACTRD** Yes No
ACTRDT **ACTRES** **ACTTCH**
1. Accounting, finance, contracts..... ☐ 1 ☐ 2 **WAACC**
2. Basic research – study directed toward gaining scientific knowledge primarily for its own sake..... ☐ 1 ☐ 2 **WABRSH**
3. Applied research – study directed toward gaining scientific knowledge to meet a recognized need..... ☐ 1 ☐ 2 **WAAPRSH**
4. Development – using knowledge gained from research for the production of materials, devices..... ☐ 1 ☐ 2 **WADEV**
5. Design of equipment, processes, structures, models..... ☐ 1 ☐ 2 **WADSN**
6. Computer programming, systems or applications development..... ☐ 1 ☐ 2 **WACOM**
7. Human resources – including recruiting, personnel development, training..... ☐ 1 ☐ 2 **WAEMRL**
8. Managing or supervising people or projects..... ☐ 1 ☐ 2 **WAMGMT**
9. Production, operations, maintenance (e.g., chip production, operating lab equipment)..... ☐ 1 ☐ 2 **WAPROD**
10. Professional services (e.g., health care, counseling, financial services, legal services)..... ☐ 1 ☐ 2 **WASVC**
11. Sales, purchasing, marketing, customer service, public relations..... ☐ 1 ☐ 2 **WASALE**
12. Quality or productivity management..... ☐ 1 ☐ 2 **WAQM**
13. Teaching..... ☐ 1 ☐ 2 **WATEA**
14. Other activity – *specify*..... ☐ 1 ☐ 2 **WAOT**

A31. On which two activities in question A30 did you work the most hours during a typical week on this job?

Enter number of appropriate activity from question A30 above.

- a. Activity most hours **WAPRI** **WAPRSM**
- b. Activity second most hours
(Enter "0" if no second most) **WASEC** **WASCSM**

SUPWK

A32. As part of the principal job you held during the week of February 1, 2021, did you supervise the work of others?

Mark "Yes" if you recommended or initiated personnel actions such as hiring, firing, evaluating, or promoting others.

Teachers: Do not count students.

1 Yes

2 No → Go to question A34

A33. How many people did you typically...

Number supervised

a. Supervise directly?

(If none, enter "0")

b. Supervise indirectly through subordinate supervisors?.....

(If none, enter "0")

A34. Thinking about your principal job held during the week of February 1, 2021, please rate your satisfaction with that job's...

Mark one answer for each item.

Very satisfied Somewhat satisfied Somewhat dissatisfied Very dissatisfied

	Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
1. Salary.....	1	2	3	4
2. Benefits.....	1	2	3	4
3. Job security.....	1	2	3	4
4. Job location.....	1	2	3	4
5. Opportunities for advancement.....	1	2	3	4
6. Intellectual challenge.....	1	2	3	4
7. Level of responsibility.....	1	2	3	4
8. Degree of independence.....	1	2	3	4
9. Contribution to society.....	1	2	3	4

SATSAL

SATBEN

SATSEC

SATLOC

SATADV

SATCHAL

SATRESP

SATIND

SATSOC

A35. Thinking about the principal job you held during the week of February 1, 2021, how would you rate your overall satisfaction?

Mark one answer.

JOBSATIS

1 Very satisfied

2 Somewhat satisfied

3 Somewhat dissatisfied

4 Very dissatisfied

A36. As of the week of February 1, 2021, what was your basic annual salary on your principal job, before deductions?

Do not include bonuses, overtime, or additional compensation for summertime teaching or research.

If you are not salaried, please estimate your earned income, excluding business expenses.

Annual salary or earned income

SALARYP

\$, , .00 IN USD

A36a. For the principal job you held during the week of February 1, 2021, has your basic annual salary been affected at any time by the coronavirus pandemic?

SALCOV1

1 Yes

2 No → Go to page 7, question A37

A36b. Did the salary you provided above reflect the effects of the coronavirus pandemic?

1 Yes, the salary I provided reflects changes due to the coronavirus pandemic

SALEFF

2 No, I provided my usual salary



A36c. How has your basic annual salary been affected by the coronavirus pandemic?

SALCOV2

- 1 It was decreased temporarily but has returned to normal } **Go to question A36d**
- 2 It is currently decreased } **Go to question A36d**
- 3 It was increased temporarily but has returned to normal } **Go to question A36e**
- 4 It is currently increased } **Go to question A36e**
- 5 I did not receive an expected raise or cost of living increase } **Go to question A36d**
- 6 Other – specify

Go to question A37

A36d. By how much did your salary decrease due to the pandemic?

SALDEC

Your best estimate is fine.

It decreased by

\$, , .00 IN USD

Go to question A37

A36e. By how much did your salary increase due to the pandemic?

SALINC

Your best estimate is fine.

It increased by

\$, , .00 IN USD

A37. Was this salary based on a 52-week year, or less than that?

WKSYSR

Include paid vacation and sick leave.

WKSWK

1 52-week year

2 Less than 52 weeks

WKSLYR

weeks per year

A38. During a typical week on your principal job, how many hours did you work?

HRSWKP

hours per week

If fewer than 35 hours, go to question A39.

If 35 or more hours, go to question A41.

A39. (If fewer than 35 hours) Did you want to work 35 or more hours per week on your principal job?

PJWTF

1 Yes

2 No

A40. Why did you usually work fewer than 35 hours?

Mark Yes or No for each item.

Yes No

1. Previously retired or semi-retired..... 1 2

PJRET

Year retired

If Yes →

2. Student..... 1 2

PJSTU

3. Family responsibilities due to the coronavirus pandemic (e.g., childcare, eldercare)..... 1 2

PJFAMCOV

4. Family responsibilities unrelated to the coronavirus pandemic..... 1 2

PJFAM

5. Full-time job not available due to the coronavirus pandemic..... 1 2

PJOCNACOV

6. Full-time job not available unrelated to the coronavirus pandemic..... 1 2

PJOCNA

7. Hours or work reduced due to the coronavirus pandemic..... 1 2

PJHRSCOV

8. Hours or work reduced unrelated to the coronavirus pandemic..... 1 2

PJHRS

9. Held more than one job..... 1 2

PJHAJ

10. Did not need or want to work more hours..... 1 2

PJNOND

11. Other reason – specify..... 1 2

PJOT

A41. Thinking of your principal job during the week of February 1, 2021, which of the following benefits were available to you even if you chose not to take them?

Mark Yes or No for each item.

Yes No

1. Health insurance that was at least partially paid by your employer..... 1 2

JOBINS

2. A pension plan or a retirement plan to which your employer contributed..... 1 2

JOBPENS

3. A profit-sharing plan..... 1 2

JOBPROFT

4. New or additional paid leave due to the coronavirus pandemic..... 1 2

JOBVACCOV

5. Paid vacation, sick, or personal days unrelated to the coronavirus pandemic... 1 2

JOBVAC



A41a. Thinking of your principal job during the week of February 1, 2021, which of the following best describes whether you were allowed or required to telecommute/work remotely?

TELEW

Mark one answer.

- ☐ 1 I was allowed or required to telecommute/work remotely due to the coronavirus pandemic
- ☐ 2 I was allowed or required to telecommute/work remotely regardless of the coronavirus pandemic
- ☐ 3 I was not allowed or required to telecommute/work remotely
- ☐ 4 Telecommuting/working remotely did not make sense for my job

A42. Thinking back now to 2020, was any of your work during 2020 supported by contracts or grants from the U.S. federal government?

GOVSUP

U.S. federal employees: Please answer "No."

Mark one answer.

- ☐ 4 Did not work in 2020 → **Go to page 9, question B1**
- ☐ 1 Yes
- ☐ 2 No
- ☐ 3 Don't know

→ **Go to question A44**

A43. Which U.S. federal government agencies or departments were supporting your work?

Mark all that apply.

- | | |
|---------------------------------|---|
| <input type="checkbox"/> FSDOD | <input type="checkbox"/> 1 Department of Defense (DOD) |
| <input type="checkbox"/> FSDOD | <input type="checkbox"/> 1 Department of Education |
| <input type="checkbox"/> FSDOE | <input type="checkbox"/> 1 Department of Energy (DOE) |
| <input type="checkbox"/> FSNIH | <input type="checkbox"/> 1 National Institutes of Health (NIH) |
| <input type="checkbox"/> FSHHS | <input type="checkbox"/> 1 Department of Health and Human Services (except NIH) |
| <input type="checkbox"/> FSNASA | <input type="checkbox"/> 1 National Aeronautics and Space Administration (NASA) |
| <input type="checkbox"/> FSNSF | <input type="checkbox"/> 1 National Science Foundation (NSF) |
| <input type="checkbox"/> FSOT | <input type="checkbox"/> 1 Other – <i>specify</i> |
| | <input type="text"/> |
| <input type="checkbox"/> FSDK | <input type="checkbox"/> 1 Don't know source agency |

A44. Counting all jobs held in 2020, what was your total earned income for 2020, before deductions?

Include all wages, salaries, bonuses, overtime, commissions, consulting fees, net income from businesses, summertime teaching or research, or other work associated with scholarships.

Do not include Social Security, dividends, interest, pensions, gambling winnings, royalties, unemployment insurance, spouse's earnings, alimony received or child support received.

EARNP

Total 2020 earned income

\$, , .00 IN USD

A44a. How was your total earned income for 2020 affected by the coronavirus pandemic?

ERNCOV1

- ☐ 1 It decreased → **Go to question A44b**
- ☐ 2 It increased → **Go to question A44c**
- ☐ 3 It was not affected → **Go to page 9, question B1**

A44b. By how much did your income for 2020 decrease due to the pandemic?

ERNDEC

Your best estimate is fine.

It decreased by

\$, , .00 IN USD

→ **Go to page 9, question B1**

A44c. By how much did your income for 2020 increase due to the pandemic?

ERNINC

Your best estimate is fine.

It increased by

\$, , .00 IN USD



Part B - Past Employment

Part C - Other Work-Related Experiences

B1. Were you working for pay or profit during both of these time periods: the week of February 1, 2019, and the week of February 1, 2021?

WRKGFP

- ☐ 1 Yes
☐ 2 No → Go to question C1

B2. During these two time periods – the week of February 1, 2019, and the week of February 1, 2021 – were you working for...

EMSMI

Mark one answer.

- ☐ 1 Same employer and in same type of job } → Go to question C1
☐ 2 Same employer but in different type of job
☐ 3 Different employer but in same type of job
☐ 4 Different employer and in different type of job

B3. Why did you change your employer or your job between the week of February 1, 2019, and the week of February 1, 2021?

Mark Yes or No for each item.

Yes No

- ☐ 1 Pay, promotion opportunities..... ☐ 1 ☐ 2
☐ 2 Working conditions (e.g., hours, equipment, working environment)..... ☐ 1 ☐ 2
☐ 3 Job location..... ☐ 1 ☐ 2
☐ 4 Change in career or professional interests..... ☐ 1 ☐ 2
☐ 5 Family-related reasons due to the coronavirus pandemic (e.g., childcare, eldercare)..... ☐ 1 ☐ 2
☐ 6 Family-related reasons unrelated to the coronavirus pandemic (e.g., children, spouse's job moved)..... ☐ 1 ☐ 2
☐ 7 School-related reasons (e.g., returned to school, completed a degree)..... ☐ 1 ☐ 2
☐ 8 Laid off or job terminated due to the coronavirus pandemic..... ☐ 1 ☐ 2
☐ 9 Laid off or job terminated for reasons other than the coronavirus pandemic (includes company closings, mergers, buyouts, grant or contract ended)..... ☐ 1 ☐ 2
☐ 10 Retired..... ☐ 1 ☐ 2
☐ 11 Some other reason – specify..... ☐ 1 ☐ 2

C1. During the past 12 months, did you take any work-related training, such as workshops or seminars?

WKTRNI

Include conferences or professional meetings only if you attended a training session at the conference or meeting.

Do not include college coursework for which you were enrolled in a degree program.

- ☐ 1 Yes
☐ 2 No → Go to page 10, question C4

C2. For which of the following reasons did you take work-related training during the past 12 months?

Mark Yes or No for each item.

Yes No

WTRSKL

WTROPPS

WTRLIC

WTRCHOC

WTREM

WTRPERS

WTROT

1. To improve skills or knowledge in your current occupational field..... ☐ 1 ☐ 2
2. To increase opportunities for promotion or advancement in your current occupational field..... ☐ 1 ☐ 2
3. For licensure or certification in your current occupational field..... ☐ 1 ☐ 2
4. To facilitate a change to a different occupational field..... ☐ 1 ☐ 2
5. Required or expected by employer..... ☐ 1 ☐ 2
6. For leisure or personal interest..... ☐ 1 ☐ 2
7. Other reason – specify..... ☐ 1 ☐ 2

C3. What was your most important reason from question C2 for taking training?

Enter number of appropriate reason from question C2 above.

WTREASN

Most important reason



Part D - Recent Educational Experiences

C4. During the past 12 months, did you attend any professional conferences or professional society or association meetings?

Include regional, national, or international meetings

- ☐ 1 Yes, I attended in person or virtually (i.e., online or by remote access)
- ☐ 2 No

C5. To how many regional, national, or international professional societies or associations do you currently belong?

If none, enter "0."

Number PRMBRPB

C6. When thinking about a job, how important is each of the following factors to you?

Mark one answer for each item.

Very important Somewhat important Somewhat unimportant Not important at all

▼ ▼ ▼ ▼

FACSA	1. Salary.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
FACBEN	2. Benefits.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
FACSEC	3. Job security.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
FACLOC	4. Job location.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
FACADV	5. Opportunities for advancement.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
FACCHAL	6. Intellectual challenge.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
FACRESP	7. Level of responsibility.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
FACIND	8. Degree of independence.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
FACSOC	9. Contribution to society.....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4

D1. Between February 2019 and February 2021, did you complete another degree?

- ☐ 1 Yes
- ☐ 2 No → **Go to page 11, question D7**

D2. What was the highest degree you earned between February 2019 and February 2021?

Mark one answer.

- ☐ 1 Bachelor's degree (e.g., BS, BA, AB)
- ☐ 2 Master's degree (e.g., MS, MA, MBA)
- ☐ 3 Doctorate (e.g., Ph.D., D.Sc., Ed.D.)
- ☐ 4 Other professional degree (e.g., JD, LLB, MD, DDS, DVM) – *specify*

- ☐ 5 Other degree – *specify*

D3. What was the primary field of study for this degree?

Primary field of study

NMRMEMG

NMRMENGP

D4. In what month and year was this degree awarded?

MR5YRP

Month

Year

Degree awarded

 2 0

D5. From which academic institution did you receive this degree? MRPB15C MRRGNP MRDGRUS

College or University Name

Department

City

State

Territory/Country (if non-U.S.)

D6. For which of the following reasons did you obtain this degree?

Mark Yes or No for each item.

Yes No

MRCAR

1. To gain further education before beginning a career..... ☐ ☐

2. To prepare for graduate school or further education..... ☐ ☐

MRCHG

3. To change your academic or occupational field..... ☐ ☐

MRSKL

4. To gain further skills or knowledge in your academic or occupational field..... ☐ ☐

MRLIC

5. For licensure or certification..... ☐ ☐

MRADV

6. To increase opportunities for promotion, advancement, or higher salary..... ☐ ☐

7. Required or expected by employer..... ☐ ☐

MRINT

8. For leisure or personal interest..... ☐ ☐

9. For some other reason – specify..... ☐ ☐

MROTP
combines
codes 2,
7 and 9

D7. During the week of February 1, 2021, were you enrolled in or taking courses at a college or university?

ACSIN

☐ Yes

☐ No → Go to page 12, question E1

D8. Were you taking courses or enrolled as...

ACFPT

Mark one answer.

☐ A full-time student in a degree program

☐ A part-time student in a degree program

☐ Not enrolled in a degree program, but taking courses

D9. Toward what degree were you working?

ACDRG

If you were working toward more than one degree, mark the level for the highest degree.

Mark one answer.

☐ No specific degree → Go to page 12, question D11

☐ Bachelor's degree (e.g., BS, BA, AB)

☐ Master's degree (e.g., MS, MA, MBA)

☐ Doctorate (e.g., Ph.D., D.Sc., Ed.D.)

☐ Other professional degree (e.g., JD, LLB, MD, DDS, DVM) – specify

☐ Other degree – specify

D10. What was the primary field of study for this degree?

Primary field of study

NACEDMG



Part E - Demographic Information

D11. For which of the following reasons were you taking courses or enrolled?

Mark Yes or No for each item.

ACCAR

1. To gain further education before beginning a career..... 1 2

ACCHG

2. To prepare for graduate school or further education..... 1 2

ACSKL

3. To change your academic or occupational field..... 1 2

ACLIC

4. To gain further skills or knowledge in your academic or occupational field..... 1 2

ACADV

5. For licensure or certification..... 1 2

ACINT

6. To increase opportunities for promotion, advancement, or higher salary..... 1 2

ACINT

7. Required or expected by employer..... 1 2

ACINT

8. For leisure or personal interest..... 1 2

ACINT

9. For some other reason – *specify*..... 1 2

ACOTP combines codes 2, 7, and 9

D12. Were any of your school-related costs for taking courses paid for by an employer?

1 Yes

2 No

ACCCEP

E1. On February 1, 2021, what was your marital status?

Mark one answer.

MARSTA

MARIND

1 Married

2 Living in a marriage-like relationship

3 Widowed

4 Separated

5 Divorced

6 Never married

Go to page 13, question E4

E2. During the week of February 1, 2021, was your spouse or partner working?

1 Yes, full-time

2 Yes, part-time

3 No → Go to page 13, question E4

SPOWK

E3. Did your spouse's or partner's duties on this job require the technical expertise of a bachelor's degree or higher in...

Mark Yes or No for each item.

SPNAT

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

SPSOC

2. The social sciences..... 1 2

SPOT

3. Some other field (e.g., health, business, or education) – *specify*..... 1 2

E4. As of the week of February 1, 2021, did you have any children living with you as part of your family?

CHLVIN

Only count children who lived with you at least 50 percent of the time.

- ☐ 1 Yes
☐ 2 No → **Go to question E6**

E5. How many children did you have living with you as part of your family in each of the following age categories?

If no children in a category, enter "0."

CHTOTPB

Number of children

- a. Under age 2..... CHU2IN
- b. Aged 2-5..... CH25IN
- c. Aged 6-11..... CH6IN CH611IN
- d. Aged 12-18..... CHUN12 CHUN1218IN
- e. Aged 19 or older..... CH19IN

E6. On February 1, 2021, were you living in the United States or Puerto Rico, another U.S. territory, or were you living in another country?

FNINUS

Mark one answer.

- ☐ 1 United States or Puerto Rico
☐ 2 Another U.S. territory
☐ 3 Another country – specify

E7. On February 1, 2021, were you a...

CTZUSIN

CTZN

- ☐ 1 U.S. citizen
☐ 2 Non-U.S. citizen → **Go to question E9**

E8. Were you a U.S. citizen...

Mark one answer.

CTZUS

- ☐ 1 Born in the United States, Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas
☐ 2 Born abroad of a U.S. citizen parent
☐ 3 By naturalization

Go to question E11

E9. On February 1, 2021, what kind of U.S. Resident Visa did you hold?

CTZFOR

Mark one answer.

- ☐ 1 Permanent U.S. Resident Visa (Green Card)
☐ 2 Temporary U.S. Resident Visa
☐ 3 No longer held a U.S. Resident Visa

E10. Of which country are you a citizen?

E11. What is your birthdate?

AGEGRP

Month		Day		Year			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

E12. These questions are asked to verify that our records are correct and that we have reached the correct person selected for this study.

a. From which institution did you receive your first doctorate?

Ph.D. institution

b. What is the field in which you earned your first doctorate?

Ph.D. field

c. In what month and year was your first doctorate awarded to you?

Month		Year			
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



E13. The next several questions are designed to help us better understand the career paths of individuals with specific functional limitations.

HCAPIN

What is the USUAL degree of difficulty you have with...

Mark one answer for each item.

	None ▼	Slight ▼	Moderate ▼	Severe ▼	Unable to do ▼
1. SEEING words or letters in ordinary newsprint (with glasses/contact lenses, if you usually wear them).....	1	2	3	4	5
2. HEARING what is normally said in conversation with another person (with a hearing aid, if you usually use one).....	1	2	3	4	5
3. WALKING without human or mechanical assistance or using stairs.....	1	2	3	4	5
4. LIFTING or carrying something as heavy as 10 pounds, such as a bag of groceries.....	1	2	3	4	5
5. CONCENTRATING, REMEMBERING, or MAKING DECISIONS because of physical, mental, or emotional condition.....	1	2	3	4	5

→ If you answered "None" to all the activities in question E13, go to question E15.

Otherwise, continue to E14.

DIFNO

E14. What is the earliest age at which you first began experiencing any difficulties in any of these areas?

DIFAGEGR

Age OR ← Since birth DIFBIR

E15. In case we need to clarify some of the information you have provided, please list phone numbers and an email address where you can be reached.

Enter country code "001" for U.S. and Canada. Enter appropriate country code for phone numbers located elsewhere.

	Country Code	Area/City Code	Number
Home Phone Number	/ <input type="text"/> <input type="text"/> <input type="text"/> /	<input type="text"/> <input type="text"/> <input type="text"/> -	<input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Work Phone Number	/ <input type="text"/> <input type="text"/> <input type="text"/> /	<input type="text"/> <input type="text"/> <input type="text"/> -	<input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Cell Phone Number	/ <input type="text"/> <input type="text"/> <input type="text"/> /	<input type="text"/> <input type="text"/> <input type="text"/> -	<input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Email Address	<input type="text"/>		



E16. Because we are interested in how education and employment change over time, we may be contacting you in 2023. To help us contact you, please provide the name and contact information for 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 difficulty contacting you in 2023.

Person 1

First Name	M.I.	Last Name
<input type="text"/>	<input type="text"/>	<input type="text"/>
Email Address		
<input type="text"/>		
Number and Street Address		
<input type="text"/>		
City	State	ZIP/Postal Code
<input type="text"/>	<input type="text"/>	<input type="text"/>
Territory/Country (if non-U.S.)		
<input type="text"/>		
Country Code	Area/City Code	Number
/ <input type="text"/> <input type="text"/> <input type="text"/> /	<input type="text"/> <input type="text"/> <input type="text"/>	- <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Person 2

First Name	M.I.	Last Name
<input type="text"/>	<input type="text"/>	<input type="text"/>
Email Address		
<input type="text"/>		
Number and Street Address		
<input type="text"/>		
City	State	ZIP/Postal Code
<input type="text"/>	<input type="text"/>	<input type="text"/>
Territory/Country (if non-U.S.)		
<input type="text"/>		
Country Code	Area/City Code	Number
/ <input type="text"/> <input type="text"/> <input type="text"/> /	<input type="text"/> <input type="text"/> <input type="text"/>	- <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>



JOB CATEGORY

If you cannot find the code that best describes your job, use the "Other" code under the most appropriate broad category. If none of the codes fit your job, use Code 500.

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 and technicians in the biological/life sciences 027 Other biological and life scientists
Clerical/Administrative Support Occupations	031 Accounting clerks and bookkeepers 032 Secretaries, receptionists, typists	033 Other administrative (e.g., record clerks, telephone operators)
Clergy/Other Religious Workers	040 Clergy and other religious workers	
Computer Occupations <i>Also consider 173 Operations research analysts, including modeling</i>	*** Computer engineers – <i>also consider 087 Computer engineers – hardware and 088 Computer engineers – software</i> 051 Computer & information scientists, research 052 Computer network architect 053 Computer programmers (business, scientific, process control) 054 Computer support specialists 055 Computer system analysts	056 Database administrators 057 Information security analysts 058 Network and computer systems administrators 059 Software developers – applications and systems software 060 Web developers 061 Other computer and information science occupations
Consultants	<i>Find the category on page 16 or 17 that comes closest to your field of consulting and select the code</i>	
Counselors	070 Counselors (Educational, vocational, mental health and substance abuse) <i>Also consider 236 Psychologists, including clinical</i>	
Engineers/Architects <i>Also consider 100 to 104 under Engineering Technologists, Technicians and Surveyors</i>	081 Architects 082 Aeronautical/aerospace/astronautical engineers 083 Agricultural engineers 084 Bioengineers or biomedical engineers 085 Chemical engineers 086 Civil, including architectural/sanitary engineers 087 Computer engineers – hardware 088 Computer engineers – software 089 Electrical and electronics engineers	090 Environmental engineers 091 Industrial engineers 092 Marine engineers and naval architects 093 Materials and metallurgical engineers 094 Mechanical engineers 095 Mining and geological engineers 096 Nuclear engineers 097 Petroleum engineers 098 Sales engineers 099 Other engineers
Engineering Technologists/Technicians/Surveyors	100 Electrical, electronic, industrial, and mechanical technicians 101 Drafting occupations, including computer drafting 102 Surveying and mapping technicians	103 Other engineering technologists and technicians 104 Surveyors, cartographers, photogrammetrists
Farmers/Foresters/Fishermen	110 Farmers, foresters and fishermen	
Health Occupations	111 Diagnosing/treating practitioners (e.g., dentists, optometrists, physicians, psychiatrists, podiatrists, surgeons, veterinarians) 112 Registered nurses, pharmacists, dieticians, therapists, physician assistants, nurse practitioners	236 Psychologists, including clinical – <i>Also consider 070 Counselors</i> 113 Health technologists and technicians (e.g., dental hygienists, health record technologists/technicians, licensed practical nurses, medical or laboratory technicians, radiological technicians) 114 Other health occupations
Lawyers/Judges	120 Lawyers, judges	
Librarians/Archivists/Curators	130 Librarians, archivists, curators	
Managers and Supervisors, First-Line	<i>Find the category on page 16 or 17 that best describes the occupation of the people you manage and select the code</i>	
Managers, Top-level Executives/Administrators	141 Top-level managers, executives, administrators (e.g., CEO/COO/CFO, president, district manager, general manager, legislator, chancellor, provost)	
Managers, Other <i>People who manage other managers</i>	142 Computer and information systems managers 143 Engineering managers 144 Medical and health services managers 145 Natural sciences managers 146 Education administrators (e.g., registrar, dean, principal) 147 Other mid-level managers	

JOB CATEGORY (Continued)

Management-Related Occupations <i>Also consider 142 to 147 under Managers, Other</i>	151	Accountants, auditors, and other financial specialists	153	Other management related occupations
	152	Personnel, training, and labor relations specialists		
Mathematical Scientists	171	Actuaries	174	Statisticians
	172	Mathematicians	175	Technologists and technicians in the mathematical sciences
	173	Operations research analysts, including modeling	176	Other mathematical scientists
Physical Scientists	191	Astronomers	195	Oceanographers
	192	Atmospheric and space scientists	196	Physicists, except biophysicists
	022	Biochemists and biophysicists	197	Technologists and technicians in the physical sciences
	193	Chemists, except biochemists	198	Other physical scientists
	194	Geologists, including earth scientists		
Research Associates/ Assistants	<i>Find the category on page 16 or 17 that comes closest to your research field and select the code</i>			
Sales/Marketing Occupations	200	Insurance, securities, real estate, and business services	202	Sales occupations – retail (e.g., furnishings, clothing, motor vehicles, cosmetics)
	201	Sales occupations – commodities except retail (e.g., industrial machinery/equipment/supplies, medical and dental equip./supplies)	203	Other marketing and sales occupations
Service Occupations, Except Health <i>Also consider 111 to 114 under Health Occupations</i>	221	Food preparation and service (e.g., cooks, waitresses, bartenders)	223	Other service occupations, except health (e.g., probation officers, human services workers)
	222	Protective services (e.g., fire fighters, police, guards, wardens, park rangers)		
Social Scientists	231	Anthropologists	236	Psychologists, including clinical – <i>Also consider 070 Counselors</i>
	232	Economists	237	Sociologists
	233	Historians	238	Other social scientists
	235	Political scientists		
Social Workers	240	Social workers		
Teachers—Precollege	251	Pre-kindergarten and kindergarten	255	Secondary – other subjects
	252	Elementary	256	Special education – primary and secondary
	253	Secondary – computer, math, or sciences	257	Other precollegiate area
	254	Secondary – social sciences		
Teachers/Professors—Postsecondary	271	Agriculture	283	History
	272	Art, Drama, and Music	286	Mathematics and Statistics
	273	Biological Sciences	287	Health and Related Sciences
	274	Business, Commerce, and Marketing	288	Physical Education
	275	Chemistry	289	Physics
	276	Computer Science	290	Political Science
	277	Earth, Environmental, and Marine Science	291	Psychology
	278	Economics	293	Sociology
	279	Education	297	Other Natural Sciences
	280	Engineering	298	Other Social Sciences
	281	English	299	Other Postsecondary fields
	282	Foreign Language		
Teachers—Other	300	Other teachers and instructors (e.g., private tutors, dance or flying instructors, martial arts instructors)		
Writers/Editors/Public Relations Specialists/Artists/Entertainers/Broadcasters	010	Writers, editors, public relations specialists, artists, entertainers, broadcasters		
Other Professions	401	Construction and extraction occupations	403	Precision/production occupations (e.g., metal workers, woodworkers, butchers, bakers, assemblers, printing occupations, tailors, shoemakers, photographic process)
	402	Installation, maintenance, and repair occupations	405	Transportation and material moving occupations
Other Occupations	500	Other Occupations (Not Listed)		

THANK YOU FOR COMPLETING THE QUESTIONNAIRE.

Please complete this form within two weeks and return it in the envelope provided.

If you have any questions or need assistance, please visit our SDR website at www.NSFsdr.org, call us toll-free at 1-855-460-5324 or locally at 301-637-8195, or email us at SDR@westat.com. If you cannot find the envelope or would like another, please email or call us.

Our mailing address is:

Westat
1600 Research Blvd.
RC B16
Rockville, MD 20850

- Results of the Survey of Doctorate Recipients can be found on the National Science Foundation's Website at <https://www.nsf.gov/statistics/doctoratework>.
- You are not required to respond to any information collection unless it displays a valid approval number from the Office of Management and Budget. The approval number for this survey is 3145-0020.

COMMENTS ABOUT THIS SURVEY:



Degree information collected in this survey is sorted to create a series of degree variables. Degree grid variables derived from reported information (i.e., recodes) are noted in blue text and indicated with an asterisk (*).

For the most recent degree:	For the first US S&E or health PhD:	For the first bachelor's degree:	For the highest degree:	For the 2nd highest degree:	For the 3rd highest degree:
MDRG				D2DG	D3DG
MR5YRP*	SDR5YRP*	BAAYR5P*	HDAY5P*	D25YRP*	D35YRP*
MRRGNP*	SDRRGNP*	BARGNP*	HDRGNP*	D2RGNP*	D3RGNP*
MRDGRUS*		BADGRUS*	HDDGRUS*	D2DGRUS*	D3DGRUS*
NMRMEMG*	NSDRMENTOD*	NBAMEMG*	NDGMEMG*	ND2MEMG*	ND3MEMG*
NMRMENGP*	NSDRMENTOD* SEHTOD*	NBAMENGP*	NDGMENGP*		