



OBSNUM

REFYR

SURID

2023 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 NORC at the University of Chicago

Please make any name/address changes below:

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

This paper form version of the 2023 Survey of Doctorate Recipients (SDR) has been annotated to aid data users in matching variables on the public use data file to the questionnaire content.

Variable names are placed next to their corresponding item.

- Variable names shown in **red font text boxes** with a solid border are directly reported and further denoted with **[C]** if the variable was in the short or critical item only survey path, and **[N]** if the variable is new for the 2023 SDR.
- Variable names shown in **blue font text boxes** with a dashed border are derived from reported information (i.e., recoded variables).

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 2018. 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: 07/31/2026

Office Use Only

RC ☐ Edit ☐ CADE ☐ VER ☐ Adj ☐

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, 2023, 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@norc.org or call us toll-free at 1-800-685-1663 or locally at 1-312-871-4272.

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

Part A - Employment Situation

A1. During the week of February 1, 2023, were you working for pay or profit?

WRKG [C]

LFSTAT

Working for pay or profit also includes...

- being self-employed and not getting paid that week,
- being an intermittent worker not working that week (e.g., consultant, freelancer, independent contractor),
- being on a postdoctoral appointment,
- traveling while employed,
- being on any type of paid or unpaid leave, including vacation or during a government shutdown.

- 1** Yes → **Continue to question A2**
2 No → **Go to page 7, question A38**

Principal Employer

A2. During the week of February 1, 2023, who was your principal employer?

EMUS

EMRGP

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.)

A3. During the week of February 1, 2023, which one of the following best describes your principal employer?

EMSECDT

EMSECSM

EMTPP

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 EMPLOYER

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

U.S. GOVERNMENT EMPLOYER

- 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 or NOAA)
8 U.S. federal government (e.g., civilian employee)

OTHER TYPE OF EMPLOYER

- 10** Non-U.S. government at any level
9 Other – specify



A4. 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

A5. 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 to 24 employees
- ☐ 3 25 to 99 employees
- ☐ 4 100 to 499 employees
- ☐ 5 500 to 999 employees
- ☐ 6 1,000 to 4,999 employees
- ☐ 7 5,000 to 24,999 employees
- ☐ 8 25,000 or more employees

A6. Did your principal employer come into being as a new business within the past 5 years?

NEWBUS

- ☐ 1 Yes
- ☐ 2 No

A7. Was your principal employer an educational institution?

EMED [C]

- ☐ 1 Yes
- ☐ 2 No → Go to page 3, question A12

A8. What type of educational institution was it?

EDTP [C]

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 3, question A12

A9. During the week of February 1, 2023, what type of academic position(s) did you hold at this institution?

Mark Yes or No for each item.

Yes No
▼ ▼

ACADADMN
combines
codes 1 and 2

1. President, Provost, or Chancellor (any level)..... ☐ 1 ☐ 2

2. Dean (any level), department head, or department chair..... ☐ 1 ☐ 2

ACADRCHF [C]

3. Research faculty, scientist, associate, or fellow..... ☐ 1 ☐ 2

ACADTCHF [C]

4. Teaching faculty..... ☐ 1 ☐ 2

ACADADJF [C]

5. Adjunct faculty..... ☐ 1 ☐ 2

ACADPDOF [C]

6. Postdoc (e.g., postdoctoral fellow or associate)..... ☐ 1 ☐ 2

ACADOTHP
combines
codes 7, 8,
and 9

7. Research assistant..... ☐ 1 ☐ 2

8. Teaching assistant..... ☐ 1 ☐ 2

9. Other academic position – specify..... ☐ 1 ☐ 2

↓

ACADNA [C]

10. I was not in an academic position..... ☐ 1 ☐ 2

A10. What was your faculty rank?

FACRANK [C]

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

A11. What was your tenure status?

TENSTA [C]

Mark one answer.

TENI

- ☐ 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

A12. During the week of February 1, 2023, what was the title of the principal job you held?

Example: Physics Professor

A13. 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.

A14. Using the JOB CATEGORY list on pages 20-21, choose the code that best describes the principal job you held during the week of February 1, 2023.

N20CPRMG
N20CPRNG

Code

A15. 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 |

A16. 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 A19

A17. What were your reasons for taking this postdoc?

Mark Yes or No for each item.

Yes No
▼ ▼

- | | | | |
|-----------------|---|---|---|
| PDTRAIN | 1. Additional training in PhD field..... | 1 | 2 |
| PDROUT | 2. Training in an area outside of PhD field..... | 1 | 2 |
| PDPERPL | 3. Work with a specific person or in a specific place..... | 1 | 2 |
| PEEMPL | 4. Other employment not available..... | 1 | 2 |
| PDEXPECT | 5. Postdoc generally expected for a career in this field..... | 1 | 2 |
| PDOOTHER | 6. Some other reason – <i>specify</i> | 1 | 2 |

A18. Which two reasons in question A17 were your most important reasons for taking this postdoc?

Enter number of appropriate reason from question A17 above.

PDPRI a. Most important reason

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

A19. During what month and year did you start this job (that is, the principal job you held during the week of February 1, 2023)?

Principal job started Month Year

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

A20. To what extent was your work on your principal job related to your first U.S. doctoral degree? Was it...

Please refer to your principal job held during the week of February 1, 2023.

Mark one answer.

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

Go to question A23

A21. 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

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

A22. Which two factors in question A21 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 A21 above.

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

A23. 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?

Please refer to your principal job held during the week of February 1, 2023.

Mark Yes or No for each item.

Yes No

- ☐ 1. Accounting, finance, contracts.....
☐ 2. Basic research – study directed toward gaining scientific knowledge primarily for its own sake.....
☐ 3. Applied research – study directed toward gaining scientific knowledge to meet a recognized need.....
☐ 4. Development – using knowledge gained from research for the production of materials, devices.....
☐ 5. Design of equipment, processes, structures, models.....
☐ 6. Computer programming, systems or applications development.....
☐ 7. Human resources – including recruiting, personnel development, training.....
☐ 8. Managing or supervising people or projects.....
☐ 9. Production, operations, maintenance (e.g., chip production, operating lab equipment).....
☐ 10. Professional services (e.g., healthcare, counseling, financial services, legal services).....
☐ 11. Sales, purchasing, marketing, customer service, public relations.....
☐ 12. Quality or productivity management....
☐ 13. Teaching.....
☐ 14. Other activity – *specify*.....

A24. On which two activities in question A23 did you work the most hours during a typical week on this job?

Enter number of appropriate activity from question A23 above.

- ☐ a. Activity most hours
☐ b. Activity second most hours
 (Enter "0" if no second most)

SUPWK A25. As part of the principal job you held during the week of February 1, 2023, 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 A27

A26. How many people did you typically...

Number Supervised

a. Supervise directly?.....

(If none enter "0")

b. Supervise indirectly through subordinate supervisors?

Number Supervised

(If none enter "0")

A27. Thinking about your principal job held during the week of February 1, 2023, 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
SATSAL 1. Salary.....	1	2	3	4
SATBEN 2. Benefits.....	1	2	3	4
SATSEC 3. Job security.....	1	2	3	4
SATLOC 4. Job location.....	1	2	3	4
SATADV 5. Opportunities for advancement.....	1	2	3	4
SATCHAL 6. Intellectual challenge.....	1	2	3	4
SATRESP 7. Level of responsibility.....	1	2	3	4
SATIND 8. Degree of independence.....	1	2	3	4
SATSOC 9. Contribution to society.....	1	2	3	4

JOBSATIS A28. Thinking about the principal job you held during the week of February 1, 2023, how would you rate your overall satisfaction?

Mark one answer.

1 Very satisfied

2 Somewhat satisfied

3 Somewhat dissatisfied

4 Very dissatisfied

SALARYP A29. As of the week of February 1, 2023, 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

\$, , .00 IN USD

WKSYSR A30. Was this salary based on a 52-week year, or less than that?

WKSWK

Include paid vacation and sick leave.

1 52-week year

2 Less than 52 weeks

→ weeks per year

WKSLYR

HRSWKP A31. During a typical week on your principal job, how many hours did you work?

Please refer to the principal job you held during the week of February 1, 2023.

Please round to the nearest whole hour.

hours per week

If fewer than 35 hours, go to question A32

If 35 or more hours, go to page 6, question A34

PJWTF A32. (If fewer than 35 hours) Did you want to work 35 or more hours per week on your principal job?

1 Yes

2 No

A33. Why did you usually work fewer than 35 hours?

Mark Yes or No for each item.

Yes No
▼ ▼

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

Year retired

If Yes →

--	--	--	--

PJSTU 2. Student..... 1 2

PJFAM 3. Family responsibilities..... 1 2

PJOCNA 4. Full-time job not available..... 1 2

PJHRS 5. Hours or work reduced..... 1 2

PJHAJ 6. Held more than one job..... 1 2

PJNOND 7. Did not need or want to work more hours..... 1 2

PJOT 8. Other reason – specify..... 1 2



--

A34. Thinking of your principal job during the week of February 1, 2023, 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
▼ ▼

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

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

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

JOBVAC 4. Paid vacation, sick, or personal days... 1 2

A35. Thinking of your principal job during the week of February 1, 2023, which of the following best describes whether you were allowed or required to telecommute or work remotely?

TELEC[N]

Mark one answer.

1 Telecommuting or working remotely did not make sense for my job

2 I was not allowed or required to telecommute or work remotely

3 I was required to telecommute or work remotely

4 I was allowed to telecommute or work remotely, and did

5 I was allowed to telecommute or work remotely, but did not → **Go to question A37**

Go to question A37

Go to question A36

A36. How often did you typically telecommute or work remotely?

TELEFR[N]

1 Occasionally, but not consistently

2 Consistently 1-2 days per week

3 Consistently 3-4 days per week

4 Consistently 5 or more days per week

A37. Although you were working during the week of February 1, 2023, had you previously retired from any position?

FTPRET[C]

EVRRRET

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

If you retired more than once, please report the first time you retired.

If you marked Yes to Previously retired at question A33, mark Yes and report your retirement date again.

Year retired

1 Yes →

--	--	--	--

→ **Go to page 8, question A47**

2 No → **Go to page 9, question A52**

Last Employment

A38. Did you look for work during the four weeks preceding February 1, 2023 (that is, between January 4th and February 1st)?

- ☐ 1 Yes
☐ 2 No

A39. During the week of February 1, 2023, what were your reasons for not working?

Mark Yes or No for each item.

Yes No
 ▼ ▼

NWOTP
 combines
 codes 1,
 5, and 8

1. Retired..... ☐ 1 ☐ 2

Year retired

If Yes →

--	--	--	--

NWLAY [C]

2. On layoff from a job..... ☐ 1 ☐ 2

NWSTU [C]

3. Student..... ☐ 1 ☐ 2

NWFAM [C]

4. Family responsibilities..... ☐ 1 ☐ 2

5. Chronic illness or permanent disability..... ☐ 1 ☐ 2

NWOCNA [C]

6. Suitable job not available..... ☐ 1 ☐ 2

NWNOND [C]

7. Did not need or want to work..... ☐ 1 ☐ 2

8. Other reason – specify..... ☐ 1 ☐ 2

--

A40. Prior to the week of February 1, 2023, when did you last work for pay or profit?

- ☐ 1 Never worked for pay or profit → Go to page 10, question B6

Month

Year

Last worked

--	--	--	--	--	--

A41. Prior to the week of February 1, 2023, what was the title of the last job you held?

Example: Physics Professor

--

A42. 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.

A43. Using the JOB CATEGORY list on pages 20-21, choose the code that best describes the last job you held prior to the week of February 1, 2023.

N20CMLST

Code

--	--	--

A44. To what extent was your work on your last job related to your first U.S. doctoral degree? Was it...

Mark one answer.

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

OCEDRLST [N]

LSTHRSWKP

A45. During a typical week on your last job, how many hours did you work?

Please round to the nearest whole hour.

hours per week → Go to Skip Instruction Box 1

SKIP INSTRUCTION BOX 1

If you marked retired at question A39 → Continue to question A46

If you did not mark retired at question A39 → Go to page 9, question A52

OCLSTR[C,N]

A46. Is your last job the same as the job you retired from?

1 Yes → Go to page 9, question A52

2 No → Go to question A47

N20CRTMG

A47. What was the title of the job you retired from?
Example: Physics Professor

A48. What kind of work were you doing on the job you retired from – 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.

OCEDRLRT[N]

A49. Using the JOB CATEGORY list on pages 20-21, choose the code that best describes the job you retired from.

Code

A50. To what extent was your work on the job you retired from related to your first U.S. doctoral degree? Was it...

Mark one answer.

- 1 Closely related
2 Somewhat related
3 Not related

RTHRSWKP

A51. During a typical week on the job you retired from, how many hours did you work?

Please round to the nearest whole hour.

hours per week

2022 Employment Information

A52. Thinking back now to 2022, was any of your work during 2022 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 2022 → **Go to question B1**

1 Yes

2 No

3 Don't know } **Go to question A54**

A53. Which U.S. federal government agencies or departments were supporting your work?

Mark all that apply.

FSDOD **1** Department of Defense (DOD)

FSEDE **1** Department of Education (ED)

FSDOE **1** Department of Energy (DOE)

FSNIH **1** National Institutes of Health (NIH)

FSHHS **1** Department of Health and Human Services (except NIH)

FSNASA **1** National Aeronautics and Space Administration (NASA)

FSNSF **1** National Science Foundation (NSF)

FSOT **1** Other – specify

FSDK **1** Don't know source agency

A54. Counting all jobs held in 2022, what was your total earned income for 2022, before deductions?

EARNP *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.

Total 2022 earned income

\$, , .00 IN USD

Part B - Employment & Related Experiences

B1. Were you working for pay or profit during both of these time periods: the week of February 1, 2021, and the week of February 1, 2023?

WRKGP

1 Yes

2 No → **Go to page 10, Skip Instruction Box 2**

B2. During these two time periods – the week of February 1, 2021, and the week of February 1, 2023 – were you working for...

EMSMI

Mark one answer.

1 Same employer and in same type of job } **Go to page 10, Skip Instruction Box 2**

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, 2021, and the week of February 1, 2023?

Mark Yes or No for each item.

Yes No
▼ ▼

CHPAY	1. Pay, promotion opportunities.....	1	2
CHCON	2. Working conditions (e.g., hours, equipment, working environment).....	1	2
CHLOC	3. Job location.....	1	2
CHCHG	4. Change in career or professional interests.....	1	2
CHFAM	5. Family-related reasons (e.g., children, spouse's job moved).....	1	2
CHSCH	6. School-related reasons (e.g., returned to school, completed a degree).....	1	2
CHLAY	7. Laid off or job terminated (includes company closings, mergers, buyouts, grant or contract ended).....	1	2
CHRET	8. Retired.....	1	2
CHOT	9. Some other reason – <i>specify</i>	1	2

SKIP INSTRUCTION BOX 2

During the week of February 1, 2023...

If you were not working → Continue to question B4

If you were working, but previously retired → Go to page 11, question B10

If you were working and have never retired → Go to page 12, question B14

PHYHLTH [N]

PROACT [N]

B4. Have you spent any time in the past 12 months doing professional activities related to your first U.S. doctoral degree?

Include research, writing, speaking engagements, advising or consulting, teaching, mentoring, and other professional activities.

1 Yes

2 No → Go to question B6

WABLPV [N]

B5. In the past 12 months, how many hours did you spend doing professional activities related to your first U.S. doctoral degree?

Include research, writing, speaking engagements, advising or consulting, teaching, mentoring, and other professional activities.

1 1 – 14 hours

2 15 – 49 hours

3 50 – 99 hours

4 100 – 199 hours

5 200 hours or more

WABLHRS [N]

Health

B6. How is your physical health?

- 1 Excellent
- 2 Very good
- 3 Good
- 4 Fair
- 5 Poor

B7. Although you are currently not working, do you have an impairment or health problem that limits the kind or amount of paid work you can do?

- 1 Yes
- 2 No → Go to Skip Instruction Box 3

B8. Does this impairment or problem keep you from working altogether?

- 1 Yes → Go to Skip Instruction Box 3
- 2 No

B9. Are you able to work full-time (35 or more hours per week) or can you work only part-time (fewer than 35 hours per week)?

- 1 Full-time } Go to Skip Instruction Box 3
- 2 Part-time }

SKIP INSTRUCTION BOX 3

During the week of February 1, 2023...

If you were retired → Go to page 11, question B10

If you were not retired and have previously worked for pay or profit → Go to page 12, question B14

If you have never worked for pay or profit → Go to page 13, question D1

Retirement Experiences

B10. Did any of the following employment situations encourage you to retire?

Mark Yes or No for each item.

Yes No
▼ ▼

- | | | | |
|-----------------------|--|---|---|
| RTWAGE [N] | 1. Wages reduced (or about to be reduced)..... | 1 | 2 |
| RTHRS [N] | 2. Hours reduced (or about to be reduced)..... | 1 | 2 |
| RTLAYOFF [N] | 3. Would have been laid off..... | 1 | 2 |
| RTDUTY [N] | 4. New job duties..... | 1 | 2 |
| RTLLOC [N] | 5. New job location..... | 1 | 2 |
| RTNOTSAT [N] | 6. Work was not satisfying..... | 1 | 2 |
| RTOCNA [N] | 7. Lack of work available..... | 1 | 2 |
| RTAGEDISC [N] | 8. Experienced age discrimination..... | 1 | 2 |
| RTEARLYINC [N] | 9. Early retirement incentive offer..... | 1 | 2 |
| RTPENS [N] | 10. Became eligible for pension..... | 1 | 2 |
| RTEMPOT [N] | 11. Some other employment situation – specify..... | 1 | 2 |

B11. Did any of the following personal factors encourage you to retire?

Mark Yes or No for each item.

Yes No
▼ ▼

- | | | | |
|----------------------|---|---|---|
| PRHLTH [N] | 1. My personal health..... | 1 | 2 |
| PRFHLTH [N] | 2. The health of family members, relatives, or friends..... | 1 | 2 |
| PRFACCHLD [N] | 3. Providing child care..... | 1 | 2 |
| PRSPRT [N] | 4. My spouse/partner retiring..... | 1 | 2 |
| PRPERS [N] | 5. Wanted to spend more time with family and friends..... | 1 | 2 |
| PRINT [N] | 6. Wanted to spend more time on personal pursuits and leisure..... | 1 | 2 |
| PRSAV [N] | 7. Had sufficient income to retire..... | 1 | 2 |
| PRGOVBEN [N] | 8. Became eligible for a government retirement benefit program (e.g., Social Security, Medicare)..... | 1 | 2 |
| PRFACOT [N] | 9. Some other factor – specify..... | 1 | 2 |

B12. All in all, how satisfied are you with your retirement?

RTSATIS [N]

- 1 Very satisfied
2 Somewhat satisfied
3 Somewhat dissatisfied
4 Very dissatisfied

B13. You reported working after retiring. What were your reasons for working after retiring?

- ☐ Never worked after retirement → **Go to page 12, question B14**

Mark Yes or No for each item.

Yes No
▼ ▼

- | | | | |
|---------------------|---|---|---|
| RTWINS [N] | 1. Health insurance for me..... | 1 | 2 |
| RTWINSF [N] | 2. Health insurance for my family..... | 1 | 2 |
| RTWINCN [N] | 3. Needed additional income..... | 1 | 2 |
| RTWINCW [N] | 4. Wanted additional income..... | 1 | 2 |
| RTWSOC [N] | 5. Wanted social connection..... | 1 | 2 |
| RTWPRFID [N] | 6. Wanted a professional identity..... | 1 | 2 |
| RTWASK [N] | 7. Was asked to continue working or return to work..... | 1 | 2 |
| RTWSPW [N] | 8. My spouse/partner changed their work status..... | 1 | 2 |
| RTWOT [N] | 9. Some other reason – specify..... | 1 | 2 |

Volunteering

Part C - Other Work-Related Experiences

B14. Have you spent any time in the past 12 months doing volunteer work for religious, educational, health-related, or other charitable organizations?

- ☐ 1 Yes
☐ 2 No → Go to question B16

B15. In the past 12 months, how many hours did you spend volunteering for religious, educational, health-related, or other charitable organizations?

- ☐ 1 1 – 14 hours
☐ 2 15 – 49 hours
☐ 3 50 – 99 hours
☐ 4 100 – 199 hours
☐ 5 200 hours or more

B16. Have you spent any time in the past 12 months helping friends, neighbors, or relatives who did not live with you and did not pay you for the help?

- ☐ 1 Yes
☐ 2 No → Go to question C1

B17. In the past 12 months, how many hours did you spend helping friends, neighbors, or relatives who did not live with you and did not pay you for the help?

- ☐ 1 1 – 14 hours
☐ 2 15 – 49 hours
☐ 3 50 – 99 hours
☐ 4 100 – 199 hours
☐ 5 200 hours or more

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

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 13, 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 | 1. To improve skills or knowledge in your current occupational field..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| WTRPPS | 2. To increase opportunities for promotion or advancement in your current occupational field..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| WTRLIC | 3. For licensure or certification in your current occupational field..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| WTRCHOC | 4. To facilitate a change to a different occupational field..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| WTREM | 5. Required or expected by employer..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| WTRPERS | 6. For leisure or personal interest..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |
| WTROT | 7. Some other reason – specify..... | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 |

→

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

Enter number of appropriate reason from question C2 above.

Most important reason

PROMTGI

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

Include regional, national, or international meetings that you attended either in person or remotely.

- 1 Yes, I attended in person or remotely
2 No

PRMBRPB

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

If none, enter "0."

Number

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	1	2	3	4
FACBEN	2. Benefits	1	2	3	4
FACSEC	3. Job security	1	2	3	4
FACLOC	4. Job location	1	2	3	4
FACADV	5. Opportunities for advancement	1	2	3	4
FACCHAL	6. Intellectual challenge	1	2	3	4
FACRESP	7. Level of responsibility	1	2	3	4
FACIND	8. Degree of independence	1	2	3	4
FACSOC	9. Contribution to society	1	2	3	4

Part D - Recent Educational Experiences

D1. Between February 2021 and February 2023, did you complete another degree?

- 1 Yes
2 No → Go to page 14, question D7

D2. What was the highest degree you earned between February 2021 and February 2023?

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., PhD, DSc, EdD)
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

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

If you do not remember the exact date the degree was awarded, please provide your best estimate.

Month Year

Degree awarded

 2 0 2

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

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..... 1 2

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

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

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

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

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

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

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

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

combines
2, 7, and 9

D7. During the week of February 1, 2023, were you enrolled in or taking courses at a college or university?

ACSIN

1 Yes

2 No → Go to page 15, question E1

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

ACFPT

Mark one answer.

1 A full-time student in a degree program

2 A part-time student in a degree program

3 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.

6 No specific degree → Go to page 15, question D11

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

2 Master's degree (e.g., MS, MA, MBA)

3 Doctorate (e.g., PhD, DSc, EdD)

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

5 Other degree – specify

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

NACEDMG

Primary field of study

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

Mark Yes or No for each item.

Yes No
▼ ▼

- | | | | | |
|--|----|--|----------|----------|
| ACCAR | 1. | To gain further education before beginning a career..... | 1 | 2 |
| | 2. | To prepare for graduate school or further education..... | 1 | 2 |
| ACCHG | 3. | To change your academic or occupational field..... | 1 | 2 |
| ACSKL | 4. | To gain further skills or knowledge in your academic or occupational field.... | 1 | 2 |
| ACLIC | 5. | For licensure or certification..... | 1 | 2 |
| ACADV | 6. | To increase opportunities for promotion, advancement, or higher salary..... | 1 | 2 |
| | 7. | Required or expected by employer..... | 1 | 2 |
| ACINT | 8. | For leisure or personal interest..... | 1 | 2 |
| ACOTP
combines
codes 2,
7, and 9 | 9. | For some other reason – <i>specify</i> | 1 | 2 |

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

ACCCEP

- 1** Yes
2 No

Part E - Demographic Information

E1. On February 1, 2023, what was your marital status?

MARSTA

Mark one answer.

MARIND

- 1** Married
2 Living in a marriage-like relationship
3 Widowed
4 Separated
5 Divorced
6 Never married
- **Go to page 16, question E4**

E2. During the week of February 1, 2023, was your spouse or partner working?

SPOWK

- 1** Yes, full-time
2 Yes, part-time
3 No → **Go to page 16, question E4**

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.

Yes No
▼ ▼

- | | | | | |
|--------------|----|--|----------|----------|
| 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) – <i>specify</i> | 1 | 2 |

E4. As of the week of February 1, 2023, 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."

Number of Children

a. Under age 2.....

CHU2IN

b. Aged 2-5.....

CH25IN

c. Aged 6-11.....

CH611IN

d. Aged 12-18.....

CH1218IN

e. Aged 19 or older.....

CH19IN

E6. On February 1, 2023, 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, 2023, were you a...

CTZUSIN

1 U.S. citizen

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

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

CTZUS

Mark one answer.

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, 2023, 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 I no longer hold a U.S. Resident Visa

E10. Of which country are you a citizen?

E11. What is your birthdate?

Month

Day

Year

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?

PhD institution

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

PhD field

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

Month

Year

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 a physical, mental, or emotional condition.....	1	2	3	4	5

DIFNO

If you answered "None" to all the activities in question E13, go to page 18, question E15

Otherwise, continue to E14

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

DIFAGEGR

Age OR 1 ← 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... - - -

Work Phone Number... - - -

Cell Phone Number..... - - -

Email Address.....

E15a. NORC may wish to text you to participate in the 2025 SDR. For each phone number provided in E15, indicate if the number can receive text messages and if you give NORC permission to text you at that number. Mark the phone number where you would most prefer to receive text messages in future SDR cycles. If you did not provide a type of phone number, mark not applicable (NA).

NORC will only use your phone numbers to contact you about the study and will not share, sell, or otherwise use them. We may text you up to three times in 2025. Standard messaging and data rates may apply. You may opt out of receiving text messages at any time. Call NORC toll-free at 1-800-685-1663 for assistance.

	1. Can this number receive text messages?			2. May NORC text this number?			3. Indicate your preferred number to receive text messages.
	Mark Yes, No, or NA for each number.			Mark Yes, No, or NA for each number.			Mark preferred number to text.
	Yes ▼	No ▼	NA ▼	Yes ▼	No ▼	NA ▼	Preferred Number
Home phone number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work phone number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cell phone number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

E16. Because we are interested in how education and employment change over time, we may be contacting you in 2025. 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 2025.

Person 1

First Name

M.I.

Last Name

Email Address

Number and Street Address

City

State

ZIP/Postal Code

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

Country Code

Area/City Code

Number

Person 2

First Name

M.I.

Last Name

Email Address

Number and Street Address

City

State

ZIP/Postal Code

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

Country Code

Area/City Code

Number

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 Conservation scientists and foresters	025 Medical scientists (excluding practitioners) 026 Technologists and technicians in the biological/life sciences 027 Other life scientists
Clerical/Administrative Support Occupations	031 Bookkeeping, accounting and auditing clerks 032 Secretaries and administrative assistants, and receptionists	033 Other office and administrative support workers
Clergy/Other Religious Workers	040 Clergy and other religious workers	
Computer Occupations <i>Also consider 173 Operations research analysts, including modeling</i>	*** Computer engineers – also consider 087 Computer engineers – hardware 051 Computer and information research scientists 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 that comes closest to your field of consulting and select the code</i>	
Counselors	070 Counselors (e.g., educational, vocational, mental health, substance abuse) <i>Also consider 240 Social Workers and 115 Psychologists - Health Services</i>	
Engineers/Architects <i>Also consider 100 to 104 under Engineering Technologists, Technicians and Surveyors</i>	081 Architects, except naval 082 Aeronautical/aerospace/astronautical engineers 083 Agricultural engineers 084 Bioengineers or biomedical engineers 085 Chemical engineers 086 Civil engineers, including architectural and sanitary 087 Computer engineers – hardware 089 Electrical and electronics engineers	090 Environmental engineers 091 Industrial engineers, including health and safety 092 Marine engineers and naval architects 093 Materials engineers 094 Mechanical engineers 095 Mining and geological engineers, including mining safety 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
Farming, Fishing, and Forestry Occupations	110 Farming, fishing, and forestry occupations	
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 115 Psychologists - Health Services (e.g., clinical, counseling, school psychologists) – <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
Legal Occupations	120 Lawyers, judges, and related workers	125 Legal support workers (e.g., paralegals, legal assistants)
Librarians/Archivists/Curators	130 Librarians, archivists, curators	
Managers and Supervisors, First-Line	<i>Find the category that best describes the occupation of the people you manage and select the code</i>	
Managers, Top-level Executives/Administrators	141 Top executives (e.g. chief executives, general and operations managers, legislators)	

JOB CATEGORY

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 and childcare administrators 147 Other mid-level managers
Management-Related Occupations <i>Also consider 142 to 147 under Managers, Other</i>	151 Financial specialists (e.g., accountants, auditors) 152 Personnel, training, and labor relations specialists	153 Other management related occupations (e.g., buyers and purchasing agents, claims adjusters, compliance officers, logisticians, management analysts, marketing specialists)
Mathematical Scientists	171 Actuaries 172 Mathematicians 173 Operations research analysts	174 Statisticians 176 Other mathematical scientists 177 Data scientists
Physical Scientists	191 Astronomers 192 Atmospheric and space scientists 022 Biochemists and biophysicists 193 Chemists, except biochemists 194 Environmental scientists and specialists	195 Geoscientists, including hydrologists and oceanographers 196 Physicists, except biophysicists 197 Technologists and technicians in the physical sciences 198 Other physical scientists
Research Associates/ Assistants	<i>Find the category on page that comes closest to your research field and select the code</i>	
Sales/Marketing Occupations	200 Sales representatives: services (e.g., insurance, securities, real estate, and business services) 201 Sales representatives: wholesale and manufacturing (e.g., industrial machinery/equipment/supplies)	202 Retail sales workers (e.g., furnishings, clothing, motor vehicles, cosmetics) 203 Miscellaneous sales and related workers
Service Occupations, Except Health <i>Also consider 111 to 114 under Health Occupations</i>	221 Food preparation and service (e.g., cooks, waitresses, bartenders) 222 Protective services occupations (e.g., firefighters, police, guards, wardens, park rangers)	223 Other service occupations, except health (e.g., personal care service occupations, building and grounds cleaning and maintenance occupations, etc.)
Social Scientists	231 Anthropologists and archeologists 232 Economists 233 Historians 235 Political scientists	236 Psychologists - research and applied (e.g., industrial-organizational, experimental) 237 Sociologists 238 Other social scientists
Social Workers	240 Social workers	241 Miscellaneous community and social service specialists (e.g., probation officers and correctional treatment specialists)
Teachers—Precollege	251 Preschool and kindergarten teachers 252 Elementary and middle school teachers 253 Secondary – computer, math, or sciences 254 Secondary – social sciences	255 Secondary – other subjects 256 Special education – primary and secondary school 257 Other precollegiate area
Teachers/Professors—Postsecondary	271 Agriculture 272 Art, Drama, and Music 273 Biological Sciences 274 Business 275 Chemistry 276 Computer Science 277 Atmospheric, Earth, Environmental, Marine, and Space Sciences 278 Economics 279 Education 280 Engineering 281 English Language and Literature 282 Foreign Language and Literature	283 History 286 Mathematical Sciences 287 Health 288 Recreation and Fitness Studies 289 Physics 290 Political Science 291 Psychology 293 Sociology 297 Other Life and Physical Sciences (e.g., Conservation, etc.) 298 Other Social Sciences 299 Other Postsecondary fields
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 402 Installation, maintenance, and repair occupations	403 Production occupations (e.g., assemblers, bakers, metal workers, tailors, woodworkers) 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 1-800-685-1663 (inside the U.S. or Canada) or at 1-312-871-4272 (outside the U.S.), or email us at SDR@norc.org. If you cannot find the envelope or would like another, please email or call us.

Our mailing address is:

2023 Survey of Doctorate Recipients
c/o NORC at the University of Chicago
55 E Monroe Street
19th floor, #9397
Chicago, IL 60603

UNITED STATES OF AMERICA

- **Results of the Survey of Doctorate Recipients can be found on the National Science Foundation's Website at <https://ncses.nsf.gov/surveys/doctorate-recipients>.**
- **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

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

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:

MR5YRP*
MRRGNP*
MRDGRUS*

NMRMEMG*
NMRMENG*P*

For the first US S&E or health PhD:

SDR5YRP*
SDRRGNP*

NSDRMEMTOD*
NSDRMENTOD*
SEHTOD*

For the first bachelor's degree:

BAA5YRP*
BARGNP*
BADGRUS*

NBAMEMG*
NBAMENG*P*

For the highest degree:

H5YRP
HARGNP*
HDDGRUS*

NDGMEMG*
NDGMENG*P*

For the 2nd highest degree:

D2DG
D25YRP*
D2RGNP*
D2DGRUS*

ND2MEMG*

For the 3rd highest degree:

D3DG
D35YRP*
D3RGNP*
D3DGRUS*

ND3MEMG*