

# Attachment 3

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Student Survey with Web Screenshots

**NATIONAL INSTITUTES OF HEALTH  
ACADEMIC RESEARCH ENHANCEMENT AWARD (AREA)  
STUDENT SURVEY**

Welcome!

The National Institutes of Health (NIH) has contracted with Westat, a social science research firm located in Rockville, Maryland, to conduct a survey about your experience as a student researcher on a project funded by an Academic Research Enhancement Award (AREA). Your participation will provide valuable information that will assist the NIH in improving the AREA program.

Participation in the survey is voluntary and your responses will remain private under the Privacy Act. Your individual responses to the survey will not be shared with anyone at NIH and all analyses will be de-identified. No information or opinions you provide will impact current or future grant applications you may make to NIH.

We anticipate the survey will take less than 20 minutes to complete.

If you have any questions or comments, please contact Westat at [NIHAREAsurvey@westat.com](mailto:NIHAREAsurvey@westat.com).

By clicking on “Begin Survey” on the next page, you will be agreeing to participate in this survey and will be advanced to the survey instrument.

[Next](#)

PLEASE CAREFULLY READ THE TEXT BELOW.

OMB#0925-xxxx  
Exp. xx/xxxx

Collection of this information is authorized by The Public Health Service Act, Section 411 (42 USC 285a). Rights of study participants are protected by The Privacy Act of 1974. Participation is voluntary, and there are no penalties for not participating or withdrawing from the study at any time. Refusal to participate will not affect your benefits in any way. The information collected in this study will be kept private to the extent provided by law. Names and other identifiers will not appear in any report of the study. Information provided will be combined for all study participants and reported as summaries. You are being contacted to complete this instrument so that we can evaluate the Academic Research Enhancement Award (AREA) grant mechanism.

Public reporting burden for this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. **An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.** Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA. Do not return the completed form to this address.

**EXPERIENCE WORKING ON AREA PROJECT**

1. If the information in the e-mailed survey invitation about the lab where you conducted research as a student is incorrect, please put the correct information below:

- a. Professor \_\_\_\_\_
- b. Institution \_\_\_\_\_

2. Were you a postdoctoral researcher FOR THE ENTIRE time you worked in your professor’s laboratory?

YES   
NO

3. What was your educational status at the time you worked in your professor’s laboratory? *(Please indicate all that apply.)*

High school student.....   
Undergraduate.....   
Masters student.....   
Ph.D. student.....   
Other.....

*(If Other, please specify)* \_\_\_\_\_

4. a. In what year did you begin working in your professor’s lab?

b. Are you still working in the lab? .. YES   
NO

c. In what year did your work in the lab end?

d. What was the total number of months you worked in your professor's lab?

- Less than 1 month.....
- 1 month to less than 3 months.....
- 3 months to less than 6 months.....
- 6 months to less than 9 months....
- 9 months to less than 1 year.....
- 1 year to less than 2 years.....
- 2 years or more.....

5. On average, approximately how many hours per week did you/do you work in your professor's laboratory?

a. Hours per week during school year:

b. Hours per week during summer:

6. For your laboratory work, did you receive...  
(Please indicate all that apply.)

...work-study payment?..... YES  NO

...payment, NOT work-study?..... YES  NO

...course credit?..... YES  NO

...payment of your tuition?..... YES  NO

...a living stipend?..... YES  NO

7. Which of the following best describes how you FIRST learned of the opportunity in your professor's laboratory? (Mark as many as apply.)

Professor mentioned it in class. ....

Professor approached me.....

I approached professor.....

Applied to special research program at school

Took independent research class....

Saw "help wanted" ad.....

Other, please specify:

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8. During your time working in your professor's laboratory, did you...

...identify and read an article to better understand an experimental finding?. . YES  NO

...think of a new scientific question to address in the laboratory?..... YES  NO

...choose the steps to take to answer a scientific question or problem?..... YES  NO

...decide how to analyze new data collected? . YES  NO

...write or draft a report on research findings?. YES  NO

...attend laboratory meetings?..... YES  NO

...present at a laboratory meeting?..... YES  NO

...develop a conference presentation or poster? YES  NO

...write an article for a scientific journal? YES  NO

9. While working in your professor's laboratory, which of the following were your three (3) major responsibilities? *(Please select no more than three.)*

Clean lab equipment and dishware.

Provide administrative support.....

Prepare solutions or other materials for experiments.....

Maintain cell cultures.....

Maintain laboratory animals.....

Run assays, gels, or PCRs.....

Perform equipment assembly, maintenance, testing or drafting.....

Use specialized equipment/technology

Recruit human participants.....

Collected specimen samples or data

- from human subjects.....
- Enter data in database.....
- Run statistical analyses or computer simulations  
.....
- Design tables, graphs, or other data displays
- Develop literature reviews.....
- Other (*please specify*) \_\_\_\_\_

**EDUCATION AND CAREER OUTCOMES**

10. As a result of working in your professor’s laboratory, were you able to...
- a. ...apply concepts and methods you learned in class to real scientific problems? YES  NO
  - b. ...understand your STEM coursework better? YES  NO
  - c. ...develop a one-on-one relationship with your professor? YES  NO
  - d. ...use important laboratory equipment and technology? YES  NO
  - e. ...feel more confident about your scientific abilities? YES  NO
  - f. ...feel more certain about your career goals and academic interests? YES  NO
  - g. ...develop your ability to write about scientific problems? YES  NO
  - h. ...develop your ability to communicate verbally about science? YES  NO
  - i. ...work toward a scientific goal with a team? YES  NO
11. Did working in your professor’s laboratory help you to...

- a. ...decide the specific direction of your education and career? YES   
NO
- b. ...feel enthusiastic about a scientific career? YES   
NO
- c. ...improve your performance in your coursework and exams? YES   
NO
- d. ....achieve your education and career goals? YES   
NO
- e. ...receive a good letter of recommendation? YES   
NO  NA
- f. ...secure acceptance into desired graduate program? YES   
NO  NA
- g. ...secure acceptance into your desired clinical program? YES   
NO  NA
- h. ...prepare for a job in the scientific industry? YES   
NO  NA
- i. ...prepare for a job in academia? YES  NO   
NA

12. Which of the following most nearly matches your opinion about your research experience.

Working in my professor's laboratory...

...**confirmed** my interest in further education or training in the sciences.

...**increased** my interest in further education or training in the sciences. ....

...**lessened** my interest in further education or training in the sciences. ....

I **never had** interest in further education or training in the sciences.

13. While conducting research with your professor, how satisfied or dissatisfied were you with...

	Very satisfied	Somewhat satisfied	Neither satisfied or dissatisfied	Somewhat dissatisfied	Very dissatisfied
<b>A.</b> ...the opportunity to participate in all phases of the research process?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>B.</b> ...the opportunity to work closely with a senior scientist or professor?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>C.</b> ...the mentoring you received on the topic of research?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>D.</b> ...the mentoring you received for academic and career development?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>E.</b> ...the level of feedback on your work?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>F.</b> ...the opportunity to present research findings at conferences?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>G.</b> ...the opportunity to publish?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. Overall, how satisfied or dissatisfied were you with your research experience?



	Very satisfied	Somewhat satisfied	Neither satisfied or dissatisfied	Somewhat dissatisfied	Very dissatisfied
Overall research experience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

15. What was the single most valuable aspect of working in your professor's laboratory?

16. As a result of your work with your professor, did you have any published articles, conference presentation, or posters? YES  NO   
 [IF "NO," SKIP TO QUESTION 18]

17. In the spaces below, list the TITLE and JOURNAL or VENUE of all published articles, conference presentations and posters that emerged from work with your professor. Please indicate if you were the first author. Also indicate whether the dissemination was in the form of a journal article, presentation, or poster at a conference.

**TITLE/JOURNAL or VENUE**

1.		FIRST AUTHOR? Yes <input type="checkbox"/> No <input type="checkbox"/>
		JOURNAL ARTICLE <input type="checkbox"/>
		PRESENTATION <input type="checkbox"/>
		POSTER <input type="checkbox"/>
		YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
2.		FIRST AUTHOR? Yes <input type="checkbox"/> No <input type="checkbox"/>
		JOURNAL ARTICLE <input type="checkbox"/>
		PRESENTATION <input type="checkbox"/>
		POSTER <input type="checkbox"/>
		YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
3.		FIRST AUTHOR? Yes <input type="checkbox"/> No <input type="checkbox"/>
		JOURNAL ARTICLE <input type="checkbox"/>
		PRESENTATION <input type="checkbox"/>
		POSTER <input type="checkbox"/>
		YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
4.		FIRST AUTHOR? Yes <input type="checkbox"/> No <input type="checkbox"/>
		JOURNAL ARTICLE <input type="checkbox"/>
		PRESENTATION <input type="checkbox"/>
		POSTER <input type="checkbox"/>
		YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
5.		FIRST AUTHOR? Yes <input type="checkbox"/> No <input type="checkbox"/>
		JOURNAL ARTICLE <input type="checkbox"/>
		PRESENTATION <input type="checkbox"/>
		POSTER <input type="checkbox"/>
		YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
6.		FIRST AUTHOR? Yes <input type="checkbox"/> No <input type="checkbox"/>
		JOURNAL ARTICLE <input type="checkbox"/>
		PRESENTATION <input type="checkbox"/>
		POSTER <input type="checkbox"/>
		YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
7.		FIRST AUTHOR? Yes <input type="checkbox"/> No <input type="checkbox"/>
		JOURNAL ARTICLE <input type="checkbox"/>
		PRESENTATION <input type="checkbox"/>
		POSTER <input type="checkbox"/>
		YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

18. Which of the following degrees have you **completed** and in what year did you receive them? *(Please select all that apply.)*

	<b>Year</b>
Associates.....	<input type="checkbox"/> _____
BA.....	<input type="checkbox"/> _____
BSc.....	<input type="checkbox"/> _____
BSN.....	<input type="checkbox"/> _____
MA.....	<input type="checkbox"/> _____
MS.....	<input type="checkbox"/> _____
MPH.....	<input type="checkbox"/> _____
DNP.....	<input type="checkbox"/> _____
DDS.....	<input type="checkbox"/> _____
DO.....	<input type="checkbox"/> -----
DVM.....	<input type="checkbox"/> _____
MD.....	<input type="checkbox"/> _____
PsyD.....	<input type="checkbox"/> _____
PhD.....	<input type="checkbox"/> _____
Other please specify _____.....	<input type="checkbox"/> _____

19. **Since leaving** your professor’s laboratory, have you engaged in the following activities pertaining to **scientific research** in the **biomedicine or behavioral** sciences, broadly defined:

- a. ...attended a seminar, workshop or lecture OUTSIDE OF CLASS? YES   
NO
- b. ...conducted research? YES   
NO
- c. ...organized a seminar, workshop or lecture? YES   
NO
- d. ...presented at a national or international meeting? YES   
NO
- e. ....authored or co-authored a paper in a peer-reviewed journal? YES   
NO
- f. ...authored or co-authored a technical report? YES   
NO
- g. ...taught a course as an instructor or teaching assistant? YES   
NO
- h. ....applied for a competitive research grant or fellowship? YES   
NO

i. ....received competitive funding for your research? YES   
NO

20. Are you attending, or have you **recently** been admitted to, a degree program, postdoc, internship, residency or other training program?

YES  NO   
[IF "NO" SKIP TO QUESTION 26]

21. What is, or will be, your educational status? (Please select one answer.)

- Full-time college student.....
- Part-time college student.....
- Graduate student.....
- Medical, dental, nursing or other health professional student.....
- Post-doctoral researcher/ fellow.....
- Intern, resident, or other trainee.....
- Enrolled in other educational program.
- Not currently a student.....

**QUESTIONS FOR CURRENT AND INCOMING STUDENTS, POSTDOCS, AND TRAINEES**

22. At what institution are you (or will you be) studying or working?

Institution name: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Year completion of program expected:

23. Which field most nearly matches the major or discipline of your program?

**PHYSICAL AND BIOLOGICAL SCIENCES:**

- Biological or Life sciences.....
- Chemistry.....
- Physics.....
- Other physical or biological science, please specify.....

**MATHEMATICS**

- Computer science.....
- Mathematics.....
- Statistics.....

Other mathematics, please specify.

**ENGINEERING:**

- Biomedical engineering .....
- Biological or bio- engineering.....
- Chemical engineering.....
- Nuclear engineering.....
- Computer engineering.....
- Other engineering, please specify....

**HEALTH CARE:**

- Medicine.....
- Pre-medicine.....
- Nursing.....
- Pharmacy.....
- Dentistry.....
- Veterinary medicine.....
- Public health.....
- Other health care, please specify.....

**PSYCHOLOGY AND BEHAVIORAL SCIENCES:**

- Clinical psychology.....
- Social work.....
- Counseling.....
- Health psychology.....
- Experimental psychology.....
- General psychology.....
- Other psychology or behavioral health, please specify.....

**OTHER**

- Social sciences.....
- History.....
- Education.....
- Business.....
- Humanities or fine arts.....

[Please specify] \_\_\_\_\_

—

24.....To lead to what degree?

- BA.....
- BSc.....
- BSN.....
- MA.....
- MS.....
- MPH.....
- DNP.....
- DDS.....
- DO.....
- DVM.....
- MD.....
- PsyD.....
- PhD.....
- Other please specify \_\_\_\_\_.....

25. After graduating, are you planning to pursue...

- a. ...further graduate education in a field with implications for biomedical or behavioral interventions?..... YES  NO  NOT SURE
- b. ...further education in another science, technology, engineering, or math field?..... YES  NO  NOT SURE
- c. ...an additional clinical degree (MD, DDS, PharmD, etc.)?..... YES  NO  NOT SURE
- d. ...certification(s) for clinical practice? SURE  YES  NO  NOT SURE
- e. ...full-time employment as a scientist in industry or business YES  NO  NOT SURE
- f. ...full-time employment as a scientist in an academic, government, or non-profit research setting?. YES  NO  NOT SURE
- g. ...full-time employment as a health professional?..... YES  NO  NOT SURE
- h. If there is another outcome you will pursue that is not covered above, please tell us:

**EMPLOYMENT**

26. What is your **current** employment status? (Please include future employment for which you have an offer you intend to accept. (Please select one answer.)

- Employed full time (30 hrs./week or more)
- Employed part time (29 hrs./week or less)
- Retired.....  [SKIP TO QUESTION 34]
- Not currently employed.....  [SKIP TO QUESTION 34]

27. a. Are you currently working?  Yes  Have offer; not yet working

b. How long have you been at your **current** job?

year(s)  month(s)

28. What is the name of your employer? \_\_\_\_\_

29. What is, or will be, your job title? \_\_\_\_\_

30. Is the occupation where you are, or will be, employed a biomedical or behavioral sciences field?

YES  NO

31. Which **one** of the following best describes the occupation in which you are, or will be, employed?

*(Please select one answer.)*

NOTE: "STEM" refers to Science, Technology, Engineering, or Mathematics

- Life sciences.....  [SKIP TO QUESTION 40]
- Healthcare.....  [SKIP TO QUESTION 40]
- Biomedical/biological engineering...  [SKIP TO QUESTION 40]
- Other engineering, including architecture  [SKIP TO QUESTION 40]
- Computer science or mathematics..  [SKIP TO QUESTION 40]
- Physical sciences (e.g. chemistry, physics)  [SKIP TO QUESTION 40]
- Primary or secondary STEM education  [SKIP TO QUESTION 40]
- STEM training or library services.....  [SKIP TO QUESTION 40]
- Primary or secondary education, not STEM
- Business or financial operations.....
- Legal occupation.....
- Office or administrative support.....
- Farming, fishing or forestry.....
- Community or social services.....
- Social sciences.....

Other, please specify \_\_\_\_\_

32. What are the reasons you chose employment outside of a STEM-related scientific or health professional field? *(Please select all that apply)*

A suitable job in a scientific or health field was not available.....

A better opportunity outside of the field was

.....available   
My career or professional interests changed

33. If there is another reason you chose employment outside of a STEM-related scientific or health professional field, please tell us below:

**QUESTIONS FOR RESPONDENTS WHO ARE RETIRED OR WITHOUT EMPLOYMENT**

34. In what year were you last employed?

35. What was the name of your most recent employer?  
\_\_\_\_\_

36.. What was your most recent job title?  
\_\_\_\_\_

37. Was your most recent occupation in a field related to biomedical or behavioral health?

YES  NO

38. What is the reason you do not have employment? (*check all that apply*)

- I am retired.....
- I am not looking for full-time employment .
- I am a full-time parent.....
- I am a full-time caregiver.....
- A suitable full-time job was not available
- I have an unpaid internship.....
- I have multiple part-time jobs.....
- I am disabled or ill.....
  
- Other (*Please specify below.*).....



39. Which **one** of the following best describes the field of your most recent occupation?  
 (Please select one answer.)

NOTE: "STEM" refers to Science, Technology, Engineering, or Mathematics

- Life sciences.....
- Healthcare.....
- Biomedical or biological engineering
- Other engineering, including architecture
- Computer science or mathematics..
- Physical sciences (e.g. chemistry, physics)
- Primary or secondary STEM education
- STEM training or library services.....
- Primary or secondary education, not STEM
- Business or financial operations.....
- Legal occupation.....
- Office or administrative support.....
- Farming, fishing or forestry.....
- Community or social services.....
- Social sciences.....

Other, please specify \_\_\_\_\_

**DEMOGRAPHIC INFORMATION**

40. Has your name ever changed?

- Yes.....
- No.....  [SKIP to QUESTION 42]

41. If your name has changed, please indicate the other name by which you are or were known:

Last name: \_\_\_\_\_  
 Middle name: \_\_\_\_\_  
 First name: \_\_\_\_\_

42. What is your gender?

- Female.....
- Male.....
- Transgender.....

43. Are you Hispanic/Latino?

No, not Hispanic/Latino.....

Yes, Hispanic/Latino.....

44. What is your race? *(Please select all that apply.)*

American Indian or Alaska Native....

Asian.....

Black or African American.....

Native Hawaiian or Other Pacific Islander..

White.....

45. What is your birth year?

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Thank you for completing the AREA survey.



## NATIONAL INSTITUTES OF HEALTH ACADEMIC RESEARCH ENHANCEMENT AWARD (AREA) STUDENT SURVEY

Welcome!

The National Institutes of Health (NIH) has contracted with Westat, a social science research firm located in Rockville, Maryland, to conduct a survey about your experience as a student researcher on a project funded by an Academic Research Enhancement Award (AREA). Your participation will provide valuable information that will assist the NIH in improving the AREA program.

Participation in the survey is voluntary and your responses will be private under the Privacy Act. Your individual responses to the survey will not be shared with any units of NIH and all analyses will be de-identified. No information or opinions you provide will impact current or future grant applications you may make to NIH.

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# Academic Research Enhancement Award (AREA)

PLEASE CAREFULLY READ THE TEXT BELOW.

OMB#0925-xxxx  
Exp. xx/xxxx

Collection of this information is authorized by The Public Health Service Act, Section 411 (42 USC 285a). Rights of study participants are protected by The Privacy Act of 1974. Participation is voluntary, and there are no penalties for not participating or withdrawing from the study at any time. Refusal to participate will not affect your benefits in any way. The information collected in this study will be kept private to the extent provided by law. Names and other identifiers will not appear in any report of the study. Information provided will be combined for all study participants and reported as summaries. You are being contacted to complete this instrument so that we can evaluate the Academic Research Enhancement Award (AREA) grant mechanism.

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Begin Survey

## NIH Academic Research Enhancement Award (AREA)



### EXPERIENCE WORKING ON AREA PROJECT

If the information in the e-mailed survey invitation about the lab where you conducted research as a student is incorrect, please put the correct information below:

a. Professor

b. Institution

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Next] button below.

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Save and Continue Later

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## NIH Academic Research Enhancement Award (AREA)



2. Were you a postdoctoral researcher *for the entire* time you worked in your professor's laboratory?

- Yes
- No

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## NIH Academic Research Enhancement Award (AREA)



3. What was your educational status at the time you worked in your professor's laboratory?  
(Please indicate all that apply.)

- High school student
- Undergraduate
- Masters student
- Ph.D. student
- Other, please specify

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

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## NIH Academic Research Enhancement Award (AREA)



4a. In what year did you begin working in your professor's lab?

4b. Are you still working in the lab?

- Yes
- No

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## NIH Academic Research Enhancement Award (AREA)



4c. In what year did your work in the lab end?

4d. What was the total number of months you worked in your professor's lab?

- Less than 1 month
- 1 month to less than 3 months
- 3 months to less than 6 months
- 6 months to less than 9 months
- 9 months to less than 1 year
- 1 year to less than 2 years
- 2 years or more

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

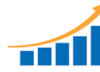
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## NIH Academic Research Enhancement Award (AREA)



5. On average, how many hours per week did you/do you work in your professor's laboratory?

a. Hours per week during school year:

b. Hours per week during summer:

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## NIH Academic Research Enhancement Award (AREA)



6. For your laboratory work, did you receive...

	Yes	No
...work-study payment?	<input type="radio"/>	<input type="radio"/>
...payment, NOT work-study?	<input type="radio"/>	<input type="radio"/>
...course credit?	<input type="radio"/>	<input type="radio"/>
...payment of your tuition?	<input type="radio"/>	<input type="radio"/>
...a living stipend?	<input type="radio"/>	<input type="radio"/>

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

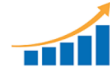
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## NIH Academic Research Enhancement Award (AREA)



7. Which of the following best describes how you **FIRST** learned of the opportunity in your professor's laboratory?  
(Mark as many as apply.)

- Professor mentioned it in class
- Professor approached me
- I approached professor
- Applied to special research program at school
- Took independent research class
- Saw "help wanted" ad
- Other, please specify

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

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## NIH Academic Research Enhancement Award (AREA)



8. During your time working in your professor's laboratory, did you...

	Yes	No
...identify and read an article to better understand an experimental finding?	<input type="radio"/>	<input type="radio"/>
...think of a new scientific question to address in the laboratory?	<input type="radio"/>	<input type="radio"/>
...choose the steps to take to answer a scientific question or problem?	<input type="radio"/>	<input type="radio"/>
...decide how to analyze new data collected?	<input type="radio"/>	<input type="radio"/>
...write or draft a report on research findings?	<input type="radio"/>	<input type="radio"/>
...attend laboratory meetings?	<input type="radio"/>	<input type="radio"/>
...present at a laboratory meeting?	<input type="radio"/>	<input type="radio"/>
...develop a conference presentation or poster?	<input type="radio"/>	<input type="radio"/>
...write an article for a scientific journal?	<input type="radio"/>	<input type="radio"/>

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

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9. While working in your professor's laboratory, which of the following were your three (3) major responsibilities?  
(Please select no more than three.)

- Clean lab equipment and dishware
- Provide administrative support
- Prepare solutions or other materials for experiments
- Maintain cell cultures
- Maintain laboratory animals
- Run assays, gels, or PCRs
- Perform equipment assembly, maintenance, testing or drafting
- Use specialized equipment/technology
- Recruit human participants
- Collected specimen samples or data from human subjects
- Enter data in database
- Run statistical analyses or computer simulations
- Design tables, graphs, or other data displays
- Develop literature reviews
- Other (please specify)

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## NIH Academic Research Enhancement Award (AREA)



### EDUCATION AND CAREER OUTCOMES

10. As a result of working in your professor's laboratory, were you able to...

	Yes	No
a. ...apply concepts and methods you learned in class to real scientific problems?	<input type="radio"/>	<input type="radio"/>
b. ...understand your STEM coursework better?	<input type="radio"/>	<input type="radio"/>
c. ...develop a one-on-one relationship with your professor?	<input type="radio"/>	<input type="radio"/>
d. ...use important laboratory equipment and technology?	<input type="radio"/>	<input type="radio"/>
e. ...feel more confident about your scientific abilities?	<input type="radio"/>	<input type="radio"/>
f. ...feel more certain about your career goals and academic interests?	<input type="radio"/>	<input type="radio"/>
g. ...develop your ability to write about scientific problems?	<input type="radio"/>	<input type="radio"/>
h. ...develop your ability to communicate verbally about science?	<input type="radio"/>	<input type="radio"/>
i. ...work toward a scientific goal with a team?	<input type="radio"/>	<input type="radio"/>

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## NIH Academic Research Enhancement Award (AREA)



11. Did working in your professor's laboratory help you to...

	Yes	No
a. ...decide the specific direction of your education and career?	<input type="radio"/>	<input type="radio"/>
b. ...feel enthusiastic about a scientific career?	<input type="radio"/>	<input type="radio"/>
c. ...improve your performance in your coursework and exams?	<input type="radio"/>	<input type="radio"/>
d. ...achieve your education and career goals?	<input type="radio"/>	<input type="radio"/>

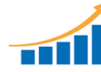
	Yes	No	Not Applicable
e. ...receive a good letter of recommendation?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. ...secure acceptance into desired graduate program?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. ...secure acceptance into your desired clinical program?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. ...prepare for a job in the scientific industry?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. ...prepare for a job in academia?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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## NIH Academic Research Enhancement Award (AREA)



12. Which of the following most nearly matches your opinion about your research experience.

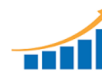
Working in my professor's laboratory...

- ...confirmed my interest in further education or training in the sciences.
- ...increased my interest in further education or training in the sciences.
- ...lessened my interest in further education or training in the sciences.
- I never had interest in further education or training in the sciences.

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

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## NIH Academic Research Enhancement Award (AREA)



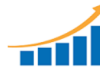
13. While conducting research with your professor, how satisfied or dissatisfied were you with...

	Very satisfied	Somewhat satisfied	Neither satisfied or dissatisfied	Somewhat dissatisfied	Very dissatisfied
A. ...the opportunity to participate in all phases of the research process?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. ...the opportunity to work closely with a senior scientist or professor?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. ...the mentoring you received on the topic of research?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. ...the mentoring you received for academic and career development?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. ...the level of feedback on your work?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. ...the opportunity to present research findings at conferences?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
G. ...the opportunity to publish?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

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## NIH Academic Research Enhancement Award (AREA)



14. Overall, how satisfied or dissatisfied were you with your research experience?

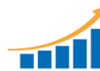
	Very satisfied	Somewhat satisfied	Neither satisfied or dissatisfied	Somewhat dissatisfied	Very dissatisfied
Overall research experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

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## NIH Academic Research Enhancement Award (AREA)



15. What was the single most valuable aspect of working in your professor's laboratory?

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## NIH Academic Research Enhancement Award (AREA)



16. As a result of your work with your professor, do you have any published articles, conference presentation, or posters?

- Yes  
 No

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## NIH Academic Research Enhancement Award (AREA)



17. In the spaces below, list the TITLE and JOURNAL or VENUE of all published articles, conference presentations and posters that emerged from your work with your professor. Please indicate if you were the first author. Also indicate whether the dissemination was in the form of a journal article, presentation, or poster at a conference.

	Title/Journal or Venue	First Author	Venue	Year
1.	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
5.	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
6.	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

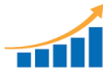
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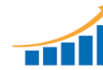
18. Which of the following degrees have you completed and in what year did you receive them?  
(Please select all that apply.)

		Year
Associates	<input type="checkbox"/>	
BA	<input type="checkbox"/>	
BSc	<input type="checkbox"/>	
BSN	<input type="checkbox"/>	
MA	<input type="checkbox"/>	
MS	<input type="checkbox"/>	
MPH	<input type="checkbox"/>	
DNP	<input type="checkbox"/>	
DDS	<input type="checkbox"/>	
DO	<input type="checkbox"/>	
DVM	<input type="checkbox"/>	
MD	<input type="checkbox"/>	
PsyD	<input type="checkbox"/>	
PhD	<input type="checkbox"/>	
Other, please specify	<input type="checkbox"/>	

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## NIH Academic Research Enhancement Award (AREA)



19. Since leaving your professor's laboratory, have you engaged in the following activities pertaining to scientific research *in the biomedicine or behavioral sciences, broadly defined?*

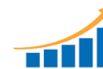
	Yes	No
a. ...attended a seminar, workshop or lecture OUTSIDE OF CLASS?	<input type="radio"/>	<input type="radio"/>
b. ...conducted research?	<input type="radio"/>	<input type="radio"/>
c. ...organized a seminar, workshop or lecture?	<input type="radio"/>	<input type="radio"/>
d. ...presented at a national or international meeting?	<input type="radio"/>	<input type="radio"/>
e. ...authored or co-authored a paper in a peer-reviewed journal?	<input type="radio"/>	<input type="radio"/>
f. ...authored or co-authored a technical report?	<input type="radio"/>	<input type="radio"/>
g. ...taught a course as an instructor or teaching assistant?	<input type="radio"/>	<input type="radio"/>
h. ...applied for a competitive research grant or fellowship?	<input type="radio"/>	<input type="radio"/>
i. ...received competitive funding for your research?	<input type="radio"/>	<input type="radio"/>

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## NIH Academic Research Enhancement Award (AREA)



20. Are you attending, or have you *recently* been admitted to, a degree program, postdoc, internship, residency or other training program?

- Yes
- No

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## NIH Academic Research Enhancement Award (AREA)



21. What is, or will be, your educational status? (Please select one answer.)

- Full-time college student
- Part-time college student
- Graduate student
- Medical, dental, nursing or other health professional student
- Post-doctoral researcher/ fellow
- Intern, resident, or other trainee
- Enrolled in other educational program
- Not currently a student

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## NIH Academic Research Enhancement Award (AREA)



QUESTIONS FOR CURRENT AND INCOMING STUDENTS, POSTDOCS, AND TRAINEES

22. At what institution are you (or will you be) studying or working?

Institution name

City

State

Year completion of program expected

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23. Which field most nearly matches the major or discipline of your program?

**PHYSICAL AND BIOLOGICAL SCIENCES**

- Biological or Life sciences
- Chemistry
- Physics
- Other physical or biological science, please specify.

**MATHEMATICS**

- Computer science
- Mathematics
- Statistics
- Other mathematics, please specify.

**ENGINEERING**

- Biomedical engineering
- Biological or bio-engineering
- Chemical engineering
- Nuclear engineering
- Computer engineering
- Other engineering, please specify.

**PSYCHOLOGY AND BEHAVIORAL SCIENCES**

- Clinical psychology
- Social work
- Counseling
- Health psychology
- Experimental psychology
- General psychology
- Other psychology or behavioral health, please specify.

**HEALTH CARE**

- Medicine
- Pre-medicine
- Nursing
- Pharmacy
- Dentistry
- Veterinary medicine
- Public health
- Other health care, please specify.

**OTHER**

- Social sciences
- History
- Education
- Business
- Humanities or fine arts
- If Other, please specify.

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## NIH Academic Research Enhancement Award (AREA)



24. To lead to what degree?

- BA
- BSc
- BSN
- MA
- MS
- MPH
- DNP
- DDS
- DO
- DVM
- MD
- PsyD
- PhD
- Other, please specify

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## NIH Academic Research Enhancement Award (AREA)



25. After graduating, are you planning to pursue...

	YES	NO	NOT SURE
a. ...further graduate education in a field with implications for biomedical or behavioral interventions?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. ...further education in another science, technology, engineering, or math field?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. ...an additional clinical degree (MD, DDS, PharmD, etc.)?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. ...certification(s) for clinical practice?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. ...full-time employment as a scientist in industry or business	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. ...full-time employment as a scientist in an academic, government, or non-profit research setting?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. ...full-time employment as a health professional?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

h. If there is another outcome you will pursue that is not covered above, please tell us:

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## NIH Academic Research Enhancement Award (AREA)



### EMPLOYMENT

26. What is your current employment status? (Please include future employment for which you have an offer you intend to accept. Please select one answer.)

- Employed full time (30 hrs./week or more)
- Employed part time (29 hrs./week or less)
- Retired
- Not currently employed

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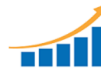
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## NIH Academic Research Enhancement Award (AREA)



27a. Are you currently working?

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## NIH Academic Research Enhancement Award (AREA)



27b. How long have you been at this job?

year(s)

month(s)

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## NIH Academic Research Enhancement Award (AREA)



28. What is the name of your employer?

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

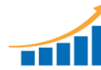
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## NIH Academic Research Enhancement Award (AREA)



29. What is, or will be, your job title?

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## NIH Academic Research Enhancement Award (AREA)



30. Is the occupation where you are, or will be, employed a biomedical or behavioral sciences field?

Yes

No

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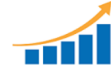
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## NIH Academic Research Enhancement Award (AREA)



31. Which one of the following best describes the occupation in which you are, or will be, employed? (Please select one answer.)

NOTE: "STEM" refers to Science, Technology, Engineering, or Mathematics

- Life sciences
- Healthcare
- Biomedical/biological engineering
- Other engineering, including architecture
- Computer science or mathematics
- Physical sciences (e.g. chemistry, physics)
- Primary or secondary STEM education
- STEM training or library services
- Primary or secondary education, not STEM
- Business or financial operations
- Legal occupation
- Office or administrative support
- Farming, fishing or forestry
- Community or social services
- Social sciences
- Other, please specify

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## NIH Academic Research Enhancement Award (AREA)



32. What are the reasons you chose employment outside of a STEM-related scientific or health professional field? (Please select all that apply)

- A suitable job in a scientific or health field was not available
- A better opportunity outside of the field was available
- My career or professional interests changed

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

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## NIH Academic Research Enhancement Award (AREA)



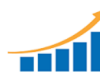
33.If there is another reason you chose employment outside of a STEM-related scientific or health professional field, please tell us below:

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4.434

## NIH Academic Research Enhancement Award (AREA)



QUESTIONS FOR RESPONDENTS WHO ARE RETIRED OR WITHOUT EMPLOYMENT

34.In what year were you last employed?

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5.534

## NIH Academic Research Enhancement Award (AREA)



35. What is the name of your most recent employer?

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5.535

## NIH Academic Research Enhancement Award (AREA)



36. What was your most recent job title?

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

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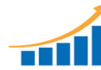
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5.536



## NIH Academic Research Enhancement Award (AREA)



37. Was your most recent occupation in a field related to biomedical or behavioral health?

- Yes  
 No

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5.537

## NIH Academic Research Enhancement Award (AREA)



38. What is the reason you do not have employment? (check all that apply)

- |  |                          |
|--|--------------------------|
| I am retired                               | <input type="checkbox"/> |
| I am not looking for full-time employment  | <input type="checkbox"/> |
| I am a full-time parent                    | <input type="checkbox"/> |
| I am a full-time caregiver                 | <input type="checkbox"/> |
| A suitable full-time job was not available | <input type="checkbox"/> |
| I have an unpaid internship                | <input type="checkbox"/> |
| I have multiple part-time jobs             | <input type="checkbox"/> |
| I am disabled or ill                       | <input type="checkbox"/> |
| Other (Please specify below.)              | <input type="checkbox"/> |

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5.538

## NIH Academic Research Enhancement Award (AREA)



39. Which one of the following best describes the field of your most recent occupation? (Please select one answer.)

NOTE: "STEM" refers to Science, Technology, Engineering, or Mathematics

- Life sciences
- Healthcare
- Biomedical/biological engineering
- Other engineering, including architecture
- Computer science or mathematics
- Physical sciences (e.g. chemistry, physics)
- Primary or secondary STEM education
- STEM training or library services
- Primary or secondary education, not STEM
- Business or financial operations
- Legal occupation
- Office or administrative support
- Farming, fishing or forestry
- Community or social services
- Social sciences
- Other, please specify

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

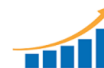
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## NIH Academic Research Enhancement Award (AREA)



### DEMOGRAPHIC INFORMATION

40. Has your name ever changed?

- Yes
- No

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

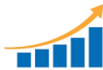
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# NIH Academic Research Enhancement Award (AREA)



41.If your name has changed, please indicate the other name by which you are or were known:

Last name

Middle name

First name

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6.641

# NIH Academic Research Enhancement Award (AREA)



42.What is your gender?

Female

Male

Transgender

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6.642

## NIH Academic Research Enhancement Award (AREA)



43. Are you Hispanic/Latino?

- No, not Hispanic/Latino
- Yes, Hispanic/Latino

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## NIH Academic Research Enhancement Award (AREA)



44. What is your race? (Please select all that apply.)

- |   |                          |
|---|--------------------------|
| American Indian or Alaska Native          | <input type="checkbox"/> |
| Asian                                     | <input type="checkbox"/> |
| Black or African American                 | <input type="checkbox"/> |
| Native Hawaiian or Other Pacific Islander | <input type="checkbox"/> |
| White                                     | <input type="checkbox"/> |

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

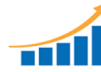
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## NIH Academic Research Enhancement Award (AREA)



45. What is your birth year?

NOTE: Please do not use your browser buttons to navigate the survey. Instead, please click on the [Previous] or [Next] buttons below.

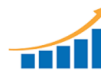
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## NIH Academic Research Enhancement Award (AREA)



Thank you for completing the AREA survey.

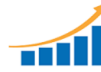
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Submit Survey

7:700

## NIH Academic Research Enhancement Award (AREA)



Please contact [NIHAREAsurvey@westat.com](mailto:NIHAREAsurvey@westat.com) if you need to make changes to your responses or have questions or concerns.

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