

INSTRUMENT CONTROL PANEL #16988

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- [Reuse/adapt this instrument for a new survey.](#) (This instrument will not be affected.)
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If you have started from a department template, you may see the following note next to some questions:

"D" — Department question. The department head can view the responses to these questions.

Gains in THINKING AND WORKING LIKE A SCIENTIST: APPLICATION OF KNOWLEDGE TO RESEARCH WORK.

	no gains	a little gain	moderate gain	good gain	great gain	not applicable
1. How much did you GAIN in the following areas as a result of your most recent research experience?						
1.1 Analyzing data for patterns.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 Figuring out the next step in a research project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 Problem-solving in general.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 Formulating a research question that could be answered with data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 Identifying limitations of research methods and designs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 Understanding the theory and concepts guiding my research project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 Understanding the connections among scientific disciplines.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.8 Understanding the relevance of research to my coursework.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D 1.9 Understanding the importance of ethics and the responsible conduct of research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D 1.10 Understanding how data are collected.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

PERSONAL GAINS RELATED TO RESEARCH WORK

2. How much did you GAIN in the following areas as a result of your most recent research experience?	no gains	a little gain	moderate gain	good gain	great gain	not applicable
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2.1 Confidence in my ability to contribute to science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.2 Comfort in discussing scientific concepts with others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.3 Comfort in working collaboratively with others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.4 Confidence in my ability to do well in future science courses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.5 Ability to work independently.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.6 Developing patience with the slow pace of research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.7 Understanding what everyday research work is like.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.8 Taking greater care in conducting procedures in the lab or field.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Gains in SKILLS

3. How much did you GAIN in the following areas as a result of your most recent research experience?	no gains	a little gain	moderate gain	good gain	great gain	not applicable
3.1 Writing scientific reports or papers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.2 Making oral presentations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.3 Defending an argument when asked questions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.4 Explaining my project to people outside my field.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.5 Preparing a scientific poster.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.6 Keeping a detailed lab notebook.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.7 Conducting observations in the lab or field.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.8 Using statistics to analyze data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.9 Calibrating instruments needed for measurement.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.10 Working with computers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.11 Understanding journal articles.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.12 Conducting database or internet searches.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.13 Managing my time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The following questions ask about your overall research experience and about any changes in your attitudes or behaviors as a researcher.

4. During your research experience HOW MUCH did you:	none	a little	some	a fair amount	a great deal	not applicable
4.1 Engage in real-world science research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.2 Feel like a scientist.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.3 Think creatively about the project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.4 Try out new ideas or procedures on your own.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.5 Feel responsible for the project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.6 Work extra hours because you were excited about the research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.7 Interact with scientists from outside your school.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.8 Feel a part of a scientific community.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

These questions ask about your research experience.

5. Please rate the following:

Not applicable Poor Fair Good Excellent

5.1 My working relationship with my research mentor

5.2 My working relationship with research group members.

5.3 The amount of time I spent doing meaningful research.

5.4 The amount of time I spent with my research mentor.

5.5 The advice my research mentor provided about careers or graduate school.

5.6 The research experience overall.

5.7 Please comment on any of these aspects.

D 5.8 My relationship with the other summer undergraduate research students in the program.

Research experience

6. As part of my most recent research experience...

yes no

6.1 I presented a talk or poster to other students or faculty

6.2 I presented a talk or poster at a professional conference

6.3 I attended a conference

6.4 I wrote or co-wrote a paper that was published in an academic journal

6.5 I wrote or co-wrote a paper that was published in an undergraduate research journal

6.6 I will present a talk or poster to other students and faculty

6.7 I will present a talk or poster at a professional conference

6.8 I will write or co-write a paper to be published in an academic journal.

6.9 I will write or co-write a paper to be published in an undergraduate research journal.

6.10 I won an award or scholarship based on my research

D 6.11 I will apply for an award or scholarship based on my research

Research experience

7. Rate how much you agree with the following statements.

Strongly disagree Disagree Agree Strongly agree

7.1 Doing research confirmed my interest in my field of study.

7.2 Doing research clarified for me which field of study I want to pursue.

7.3 My research experience has prepared me for advanced coursework or thesis work

7.4 My research experience has prepared me for graduate school.

7.5 My research experience has prepared me for a job.

D 7.6 My research experience has prepared me to transfer

from a 2-year to a 4-year institution.

- D 7.7 My research experience has clarified for me that I do not wish to pursue a career in scientific research.

- - - -

Research experience

8. Compared to your intentions BEFORE doing research, HOW LIKELY ARE YOU NOW to:

not more likely a little more likely somewhat more likely much more likely extremely more likely not applicable

- 8.1 enroll in a Ph.D. program in science, mathematics or engineering?
- 8.2 enroll in a masters program in science, mathematics or engineering?
- 8.3 enroll in a combined M.D/Ph.D program
- 8.4 enroll in medical or dental school?
- 8.5 enroll in a program to earn a different professional degree (i.e. law, veterinary medicine, etc.)
- 8.6 pursue certification as a teacher?
- 8.7 work in a science lab?

8.8 Other. Please state your intended degree and, compared to your intentions BEFORE doing research, HOW LIKELY YOU ARE NOW to enroll in a graduate program leading to an advanced degree.

- D 8.9 complete your Associates degree?
- D 8.10 transfer to a 4-year institution?
- D 8.11 complete your Bachelors degree in science, mathematics or engineering?

9. Future career plans

9.1 How did your research experience influence your thinking about future career and graduate school plans? Please explain.

10. Other gains

10.1 Did you make other gains from doing research that we didn't mention? If so, please briefly describe these.

The following questions ask about aspects of the research program.

11. How satisfied were you with the following aspects of the research program?

Not applicable. Very dissatisfied Somewhat dissatisfied Somewhat satisfied Very satisfied

- 11.1 The application process.
- 11.2 Information available to help me choose a research project.
- 11.3 Ease in locating a research mentor
- 11.4 Ease in securing a research position.
- 11.5 Lab or field equipment.
- 11.6 Support and guidance from program staff.

- 11.7 Support and guidance from my research mentor.
- 11.8 Support and guidance from other research group members.
- 11.9 Research group meetings.
- 11.10 Financial support.
- 11.11 Field trips.
- 11.12 Group social activities.

Training Sessions

12. How MUCH did the following activities support your learning? Did not do this activity Not at all A little A good amount A great deal
- 12.1 Workshop(s) on science writing and presentation.
 - 12.2 Training in library/internet/database search methods.
 - 12.3 Safety training
 - 12.4 Ethics seminar(s)
 - 12.5 Training in human or animal subjects regulations.

Graduate school and career activities

13. How MUCH did the following program activities help clarify your career plans? Did not do this activity Not at all A little A good amount A great deal
- 13.1 Session(s) offered on graduate school programs or careers.
 - 13.2 Information provided by my research mentor.
 - D** 13.3 Information from other research group members.
 - 13.4 Field trips
 - 13.5 Please comment on any of these activities.

14. Hours with mentor None 1 hour 2 hours 3 hours 4 or more hours
- 14.1 On average, how many hours per week did you spend talking with your most recent research mentor?

Institutional Review Board

15. IRB. Not applicable/don't know Yes No
- 15.1 Were you required to get Institutional Review Board (IRB) certification to conduct research?

How did you find out about research opportunities?

16. I found out about research opportunities from: yes no
- 16.1 in class
 - 16.2 an academic advisor
 - 16.3 an announcement (flyer, poster, email, website, etc.)

16.4 a presentation given by professors or students about their research

16.5 Other (please specify):

What motivated you to do research?

17. I WANTED TO DO RESEARCH TO: (select all that apply)

yes no

17.1 explore my interest in science

17.2 gain hands-on experience in research

17.3 clarify which field I wanted to study

17.4 clarify whether graduate school would be a good choice for me

17.5 clarify whether I wanted to pursue a science research career

17.6 have a good intellectual challenge

17.7 work more closely with a particular faculty member

17.8 participate in a program with strong reputation

17.9 get good letters of recommendation

17.10 enhance my resume

17.11 Other (please specify)

Feedback about Research Program

18. Feedback

18.1 What would have made your research experience better?

18.2 What would improve the undergraduate research program, overall?

Research background

19. Academic year research

Never participated 1 semester 2 semesters 3 semesters 4 or more semesters

19.1 How many times have you participated in ACADEMIC YEAR research?

20. Summer research

Never participated 1 summer 2 summers 3 summers

20.1 How many times have you participated in SUMMER research?

21. Research experience

8 weeks or less 9 weeks 10 weeks 11 weeks or more

D 21.1 For your most recent research experience, how long did you do research?

22. Stipend Not at all important Slightly important Important Very important

D 22.1 How important was the stipend or money you were paid in allowing you to do research?

23. Program applications

1-3 4-6 7-10 more than 10

D 23.1 To how many undergraduate research programs did you apply for this summer?

Academic background

24. The highest degree my home institution offers is...

associate's bachelor's master's Ph.D.

D 24.1 highest degree offered

25. What year are you in college?

Freshman/rising sophomore Sophomore/rising junior Junior/rising senior. Senior Other

D 25.1 I am a:

26. What is your grade point average?

below 2.0 2.0 to 2.32 2.33 to 2.66 2.67 to 2.99 3.0 to 3.32 3.33 to 3.66 3.67 to 4.0

D 26.1 GPA (on a 4-point scale)

Demographics

27. Gender

Male Female Your choice label here...

D 27.1 What is your gender?

28. What is your race? (choose all that apply)

yes no

D 28.1 Native American: American Indian or Native Alaskan

D 28.2 Asian

D 28.3 Black or African American

D 28.4 Native Hawaiian or other Pacific Islander

D 28.5 White

D 28.6 Other (please specify)

29. What is your ethnicity?

yes no

D 29.1 Hispanic or Latino/Latina

Family background

30. What level of education did your parents complete?		not a high school graduate	high school graduate	some college	college graduate	advanced degree
<i>D</i>	30.1 your mother	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>D</i>	30.2 your father	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

31. At your home institution, are you eligible for need-based financial aid?		yes	no	don't know
<i>D</i>	31.1 Need-based financial aid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>