

Humboldt State University POST- REU Survey

We would like to evaluate the effectiveness of the Humboldt State University Research Experience for Undergraduates: Role Modeling in Sciences Program in which you are a participant. The information collected will not be use to evaluate you personally, but to provide us with insights to better serve you and future students in this program.

PART I: EXPECTATIONS & PROGRAM QUALITY

Below are a series of statements about whether your expectations related to the REU-RMS program were met. Please select the rating that best describes your level of agreement with each statement below.

I found that the REU experience and program...

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. Was challenging and fun. | <input type="radio"/> |
| 2. Provided me with good faculty mentorship. | <input type="radio"/> |
| 3. Helped me better understand how to do research. | <input type="radio"/> |
| 4. Encouraged me to pursue my own interests. | <input type="radio"/> |
| 5. Provided opportunities to socialize with students like myself. | <input type="radio"/> |
| 6. Provided opportunities to socialize with other faculty members. | <input type="radio"/> |
| 7. Provided me with an adequate orientation to my project. | <input type="radio"/> |
| 8. Provided a good match between my skills and interests and my project. | <input type="radio"/> |
| 9. Provided campus housing that met my needs. | <input type="radio"/> |

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 10. Communicated clearly what was expected of me. | <input type="radio"/> |

7. Please describe any additional expectations that you had about participating in the REU program that you feel were met or not met.

Please rate the following features of the REU program:

| | Too little. | Just the right amount. | Too much. |
|---|-------------------------------------|---|------------------------------------|
| 11. My interaction with other REU interns was | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 12. My interaction with my REU mentors was | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 13. The number of group functions held was | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 14. The length of the REU internship was | Too short. <input type="radio"/> | Just the right amount. <input type="radio"/> | Too long. <input type="radio"/> |

Please rate the following REU program activities.

| | Very positive / beneficial | Moderately positive / beneficial | Slightly Positive/ beneficial | Slightly Negative / Non-beneficial | Moderately Negative / Non-beneficial | Very negative/ Non-beneficial | N/A |
|--|----------------------------|----------------------------------|-------------------------------|------------------------------------|--------------------------------------|-------------------------------|-----------------------|
| 15. Welcoming ceremony. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 16. Presentations by faculty mentors the first week. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 17. Interaction with mentors. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 18. Research strategies (library). | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 19. Working with a group or on a team for the REU program. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 20. The design strategies workshop. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | Very positive / beneficial | Moderately positive / beneficial | Slightly Positive/ beneficial | Slightly Negative / Non-beneficial | Moderately Negative / Non-beneficial | Very negative/ Non-beneficial | N/A |
|---|---|---|---|---|---|---|---|
| 21. Research forum/ Science of Design week start-up. | <input type="radio"/> <input type="radio"/> |
| 22. Tutorials on technical and scientific writing. | <input type="radio"/> <input type="radio"/> |
| 23. Tutorial on project management. | <input type="radio"/> <input type="radio"/> |
| 24. Kinetic Sculpture Race | <input type="radio"/> <input type="radio"/> |
| 25. Rafting Trip | <input type="radio"/> <input type="radio"/> |
| 26. Session on graduate school. | <input type="radio"/> <input type="radio"/> |
| 27. Writing a proposal, poster, and a paper about your summer research project. | <input type="radio"/> <input type="radio"/> |
| 28. Having each team present their research weekly. | <input type="radio"/> <input type="radio"/> |
| 29. My overall impression of my experience in the summer REU program. | <input type="radio"/> <input type="radio"/> |

32. How likely would you be to participate in another REU experience if you were given the opportunity?

| | Very likely | Somewhat likely | A little likely | A little unlikely | Somewhat unlikely | Very unlikely | N/A |
|--|---|---|---|---|---|---|---|
| | <input type="radio"/> <input type="radio"/> |
| | <input type="radio"/> <input type="radio"/> |

PART II: EXPERIENCE, KNOWLEDGE AND ABILITY

A – Exposure to Science of Design

Below are a series of statements about your current level of experience, knowledge, or practice related to Science of Design activities. Please select the rating that best describes your level of agreement with each statement.

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. I am familiar with creative tools that can be used across different disciplines. | <input type="checkbox"/> |
| 2. I have not had much experience with activities requiring creativity. | <input type="checkbox"/> |
| 3. I have had prior training in understanding design. | <input type="checkbox"/> |
| 4. I am knowledgeable about components of design. | <input type="checkbox"/> |
| 5. I am comfortable with engaging in design activities. | <input type="checkbox"/> |
| 6. I understand what Science of Design means and how it relates to computer systems design. | <input type="checkbox"/> |
| 7. I have had training in understanding design but have not had experience in applying it in computer systems design. | <input type="checkbox"/> |
| 8. I have had experience in working with others on a design team. | <input type="checkbox"/> |
| 9. I understand factors that should be taken into account for successful teamwork. | <input type="checkbox"/> |
| 10. I am familiar with ways for brainstorming ideas. | <input type="checkbox"/> |
| 11. I understand how brainstorming ideas contributes to design and creativity. | <input type="checkbox"/> |

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 12. I am familiar with group problem solving methods for choosing alternative solutions. | <input type="checkbox"/> |
| 13. I understand the difference between constraints and criteria in design parameters. | <input type="checkbox"/> |
| 14. I have practiced skills for organizing and running team meetings. | <input type="checkbox"/> |
| 15. I understand what "functional fixedness" means and its relationship to design. | <input type="checkbox"/> |
| 16. I understand what considerations that must be taken into account in the ethics of design. | <input type="checkbox"/> |
| 17. I understand what considerations that must be taken into account in designing for diverse audiences | <input type="checkbox"/> |
| 18. I have not had much practice in the verbal and written communication of design projects. | <input type="checkbox"/> |
| 19. I am familiar with the purpose of and steps in the process of redesign. | <input type="checkbox"/> |
| 20. I am confident of my ability to explore approaches to problem solving for problems that are unfamiliar to me. | <input type="checkbox"/> |

21. What are the different steps of the design process?

22. How will you evaluate your knowledge about the design process?

23. What steps or components of the design process did you integrate in your project?

24. How could you improve the integration of the design process steps in your project?

25. How the program (REU) or your mentor could have helped you achieve better the integration of the design process steps in your project?

26. Do you believe that learning about the science of design is important? Why or why not?

B - Exposure to Research and Computing

Below are a series of statements about your level of exposure to research and computing while participating in the Summer REU program at Humboldt State University. Please select the rating that best describes your level of agreement with each statement.

Since starting the Summer REU program at HSU, I have ...

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. Learned more about research methods. | <input type="radio"/> |
| 2. Learned more about statistics. | <input type="radio"/> |
| 3. Learned more about computing. | <input type="radio"/> |

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 4. Learned more about doing a research project. | <input type="radio"/> |
| 5. Learned more about giving presentations. | <input type="radio"/> |
| 6. Learned about preparing to present at a professional science conference. | <input type="radio"/> |

9. Has your REU experience changed your views about research? Why or why not?

C. Research and Academic Skills

Below are a series of statements about your current level of experience, knowledge, or practice related to research and academic skills. Please select the rating that best describes your level of agreement with each statement.

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. I am confident in my knowledge of research methods. | <input type="radio"/> |
| 2. I am confident in my ability to develop research questions which are interesting and researchable. | <input type="radio"/> |
| 3. I am confident in my ability to find research articles. | <input type="radio"/> |
| 4. I am confident in my ability to discuss research findings. | <input type="radio"/> |
| 5. I am confident in my ability to conduct a literature review. | <input type="radio"/> |
| 6. I am confident in my ability to present research findings. | <input type="radio"/> |
| 7. I am confident in my ability to cite authorship. | <input type="radio"/> |

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 8. I am confident in my ability to evaluate the quality of a research study. | <input type="checkbox"/> |
| 9. I am confident in my ability to write up research for publication in a scientific journal. | <input type="checkbox"/> |
| 10. I think learning to do research is enjoyable. | <input type="checkbox"/> |
| 27. I find research to be challenging and exciting. | <input type="checkbox"/> |
| 28. I am easily frustrated when doing research | <input type="checkbox"/> |
| 29. I am confident in my ability to use technical and scientific written tools. | <input type="checkbox"/> |
| 30. I am confident in my ability to design and use a Gantt Chart. | <input type="checkbox"/> |
| 31. I am confident in my ability to design a research poster. | <input type="checkbox"/> |
| 32. I am confident in my understanding of ethics in science. | <input type="checkbox"/> |
| 33. I am confident in my computer literacy skills. | <input type="checkbox"/> |
| 34. I am confident in my ability to prepare an application to graduate school. | <input type="checkbox"/> |
| 35. I am confident in my ability to succeed in graduate school, should I decide to attend. | <input type="checkbox"/> |
| 36. I have some experience in research project management. | <input type="checkbox"/> |

PART III: FUTURE GOALS

A - Think about your long term academic and career goals and plans, and select the rating that best describes your current level of agreement with each statement.

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree | N/A |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. I place a high value on the role of research in my future career. | <input type="radio"/> |
| 2. I would be Interested in enrolling in more courses related to research. | <input type="radio"/> |
| 3. Participating in research during graduate school is not a major priority for me. | <input type="radio"/> |
| 4. Developing research skills is an important part of my career goals | <input type="radio"/> |
| 5. I would not enjoy working on a research project. | <input type="radio"/> |
| 6. I would enjoy a research oriented job or a job which has some element of research in it. | <input type="radio"/> |
| 7. I would be interested in doing research in a university setting. | <input type="radio"/> |
| 8. I would be interested in doing research in an industrial setting. | <input type="radio"/> |
| 9. I would be interested in a career in computer Science / IT. | <input type="radio"/> |

B - Please indicate your level of agreement with the following statements concerning your future educational goals and select the rating that best describes your current level of agreement with each statement.

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1. I would like to obtain a Master's degree in a science field. | <input type="radio"/> |
| 2. I would like to obtain a PhD in a science field. | <input type="radio"/> |
| 3. I would like to attend graduate school majoring in computer science/IT. | <input type="radio"/> |

| | Strongly Agree | Moderately Agree | Slightly Agree | Slightly Disagree | Moderately Disagree | Strongly Disagree |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 4. I would like to attend graduate school in another field. | <input type="checkbox"/> |
| 5. I would like to work before going to graduate school. | <input type="checkbox"/> |
| 6. I am not interested in graduate school. | <input type="checkbox"/> |

Part IV - HELP SEEKING AND COPING

A. Please indicate the rating by checking the appropriate box that best describes what your typical reaction to the following scenarios would have been during the Summer REU program.

If I were having difficulties with one of my mentors, I would...

| | Always | Often | Usually | Sometimes | Never |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. Talk to a friend about it. | <input type="checkbox"/> |
| 2. Talk to the mentor about it. | <input type="checkbox"/> |
| 3. Talk to the program director about it. | <input type="checkbox"/> |
| 4. Consider leaving the program. | <input type="checkbox"/> |
| 5. Do nothing. | <input type="checkbox"/> |

B. Please indicate the rating that best describes your typical reaction by checking the appropriate box.

If I were on a student team and having difficulties with one or more of my fellow team members, I would...

| | Always | Often | Usually | Sometimes | Never |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. Talk to other members of my team. | <input type="checkbox"/> |
| 2. Talk to other REU students who aren't on my team. | <input type="checkbox"/> |
| 3. Try to switch teams. | <input type="checkbox"/> |

| | Always | Often | Usually | Sometimes | Never |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 4. Talk to my mentor about rectifying the problem. | <input type="checkbox"/> |
| 5. Do nothing. | <input type="checkbox"/> |

Part VI – Respondent Feedback

1. What did you feel you gained from your participation in the REU Program? In what way do you feel this will be useful to you in your undergraduate studies? In your future career aspirations?
2. If there were 1-3 program aspects or activities to always include as a part of future REU experiences, what would they be? Why?
3. What part(s) of the REU Program were least helpful to you? Why?
4. If there were one or more things to omit or change in the REU program, what would it be? How would you suggest making improvements?
5. Please provide any additional comments, suggestions and concerns you may have regarding this summer REU.