



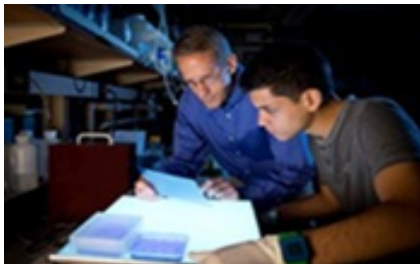
NSF/Purdue University, Department of Biochemistry

## Research Experience for Undergraduate(REU): Genetic and Biochemical Analysis of Proteins

**Program Dates: May 27-August 1, 2025**

### Program Description

This National Science Foundation sponsored program provides advanced training in the manipulation and analysis of proteins for undergraduate students. It facilitates deep understanding of experimental laboratory research, insights into protein biochemistry and contemplation of the broader context of research. A wide range of student research projects mentored by faculty in the Department of Biochemistry is available. Examples include the experimental analysis of enzyme mechanisms, post-translational protein modifications, proteomics, and protein-nucleic acid interactions studied in the biological context of cell cycle control, chromatin regulation and renewable energy research.



### Program components:

- Ten week research intensive program
- Introduction to protein biochemistry and experimental design
- Mentored research project
- Weekly career development sessions (e.g. ethical conduct in research, professional communication, graduate school application process)
- University-wide poster session
- Group Social Activities

### Participants are provided:

- \$7000 stipend and additional meal allowance
- Housing on campus
- Round trip transportation to West Lafayette, Indiana

### Requirements:

Applicants must be enrolled in a degree-granting program at a U.S. college or university and have a minimum grade point average of 3.0 on a 4.0 scale. Students should have completed at least 4 semesters by the start of the program. In addition, students must have at least one semester of undergraduate study remaining after completing the summer program and fulfill the NSF citizenship requirements. Applications will require a statement of career goals and reasons for participating in the program and two faculty recommendation letters. Faculty will be asked to comment on their perception of the applicant's interest in graduate research. The program seeks to recruit undergraduate students who are members of underrepresented groups in STEM fields.



Biochemistry

Questions? Contact:  
Dr. Mark Hall, [mchall@purdue.edu](mailto:mchall@purdue.edu)  
Jenny Wilson, [wils1135@purdue.edu](mailto:wils1135@purdue.edu)

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