BioMaP REU 2023

Biological Materials and Processes Research Experience for Undergraduates
Summer Research Experience for Undergraduate Students

May 30 - August 4, 2023

Stipend of $500 per week
Travel expenses paid up to $800
Food & housing allowance up to $2,500

BioMaP REU at Iowa State University is funded by the National Science Foundation. All baccalaureate-track and community college students who are U.S. citizens or permanent residents are encouraged to apply. The application process includes

BioMaP creates novel research experiences for undergraduate students from around the nation in the areas of biological materials and processes. Students are active members of interdisciplinary groups and interact with faculty, post-doctoral researchers, graduate students and industry. Students may also participate in cohort experiences such as seminars, meetings, workshops and more.

Choose from these research projects

Immunomodulatory Nanovaccines Against Infectious Diseases
Drug and Gene Delivery
Fabrication and Characterization of Optical Metamaterials Using DNA Origami Templates
Controlling Structure and Mechanical Properties to Understand and Guide Cell Migration
Model Validation for Photosynthetically Active Radiation Transport in Algal Photobioreactors
Microbial Cell Factories for Lipid Conversion
Thermal Deconstruction of Biomass
The Artificial Pancreas Project
Understanding the Relation Between Aptamer Structure and Function for Sensors and Synthetic Biology
Developing New Oral Vaccines through the Minigut Mucosal System
Probiotic Engineering
Toward Real-Time Control of Cell Differentiation Using Reinforcement Learning
Lignin-Based Engineering Thermoplastics

Comments from past program participants:

“I gained a lot of skills not only in lab procedures, but in experimental design.”

“The faculty and grad students are great. The campus is very beautiful and excellent for walking and biking.”

“I wasn’t sure about graduate school but this program gave me the confidence to know I can do it.”

Ames, Iowa has been named one of the ten best places to live in the U.S.

More information:
www.cbe.iastate.edu/research/undergraduate-research/

Please refer any questions to biomap@iastate.edu

Application window extended to Feb. 28th, 2023

Iowa State University does not discriminate on the basis of race, color, age, ethnicity, religion, national origin, pregnancy, sexual orientation, gender identity, genetic information, sex, marital status, disability, or status as a U.S. veteran. Inquiries can be directed to the Office of Equal Opportunity, 3410 Beardshear Hall, 515 Morrill Road, 515 294-7612.