BioMaP REU 2022

May 31 - August 5, 2022

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.

Applications are welcomed from undergraduate students 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.

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

Application window: Jan. 1- Feb. 15, 2022

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.”

BioMaP REU 2022

Iowa State University
Department of Chemical and Biological Engineering

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
- Polymer Properties That Selectively Target Tumor-Associated Macrophages
- 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

More information:

www.cbe.iastate.edu/research/undergraduate-research/

Please refer any questions to biomap@iastate.edu

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

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