

IOWA STATE
UNIVERSITY

Department of Chemical
and Biological Engineering

BioMaP REU 2020

Biological Materials and Processes Research Experience for Undergraduates

- Novel research experiences for undergrad students from around the nation in biological materials and processes

- Be an active member of interdisciplinary groups with faculty, post-doctoral researchers, graduate students and industry

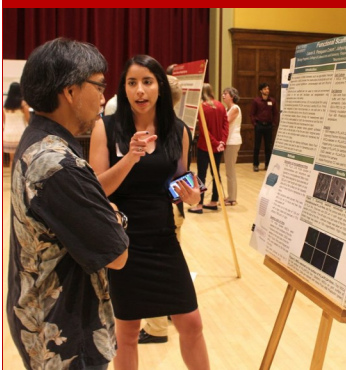
- Cohort experiences: seminars, meetings, workshops and more



May 26 – July 31, 2020

Research Projects Available:

- Immunomodulatory Nanovaccines Against Infectious Diseases
- Drug and Gene Delivery
- Hyperspectral Imaging of DNA and Protein-Linked Metal Nanoparticles
- Controlling Structure and Mechanical Properties to Understand and Guide Cell Migration
- Model Validation for Photosynthetically Active Radiation Transport in Algal Photobioreactors
- Contribution of Membrane Proteins to Microbial Robustness
- 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
- Resonant Biosensors for Enzyme Activity, Protein Binding, and Ion Detection
- Lignin-Based Engineering Thermoplastics



Student accommodations



★ Ames, Iowa named Best College Town in America by 247wallst.com

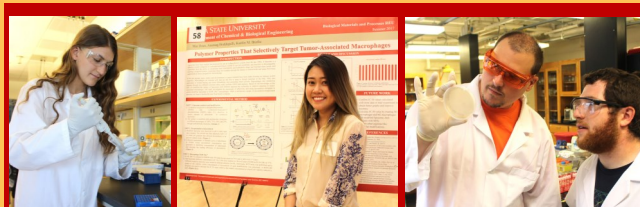


BioMaP REU at Iowa State University is funded by the National Science Foundation. All baccalaureate-track and community college students who are U.S. citizens or permanent residents are encouraged to apply. The application process includes submitting a resume and two letters of recommendation.

Apply online at:

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

Application deadline: February 15, 2020



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.