

# BioMaP REU 2012

Biological Materials and Processes Research Experience for Undergraduates



**May 29 - August 4, 2012**

Stipend: \$450/week

Travel expenses paid up to \$800

Food and housing allowance  
up to \$4500

**Click here to apply online.**



## Choose from these research projects

- Immunomodulatory Nanovaccines against Infectious Diseases
- Nano-carriers for Reactions Catalyzed by Multi-Enzyme Complexes
- Drug and Gene Delivery
- Aptamer-based Catalyst Design
- Cellular Uptake of Engineered Nanomaterials
- Computation of Enzyme Structure and Function
- Competition between Soluble and Extracellular Matrix Signals during Cell Migration
- Solvent Effects on Fractal Nanoparticle Diffusion
- Production of Biofuels from Bio-oil
- Mechanisms of Fast Pyrolysis
- The Artificial Pancreas Project
- Polymer Properties that Selectively Target Tumor-associated Macrophages
- Bacteriophages on Surfaces used for Detection and Protection
- Optimization of aptamer structure and function for sensor applications



**BioMaP REU** at Iowa State University is funded by the National Science Foundation. All undergraduate and community college students who are U.S. citizens or permanent residents are encouraged to apply. Students accepted into the summer program become active members of interdisciplinary groups and interact with faculty, post-doctoral research associates, graduate students and industry.

The Department of Chemical and Biological Engineering partners with the Instituto Tecnológico y Estudios Superiores de Monterrey (ITESM) in Mexico to promote international participation in research projects.

**Application deadline is March 15, 2012!**

**[www.cbe.iastate.edu/research/undergraduate-research](http://www.cbe.iastate.edu/research/undergraduate-research)**

**IOWA STATE UNIVERSITY**

**Department of Chemical and Biological Engineering**

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