



Research Experience for Undergraduates Program

iREU: Promoting Innovation and Entrepreneurship through Academic-Industrial Partnerships

UCONN Department of Chemical, Materials & Biomolecular Engineering
 May 21, 2012 - July 27, 2012



Program Details

Dates: May 21, 2012-July 27, 2012
Research Stipend: \$5,000
Location: University of Connecticut, Storrs Campus
Additional Expenses Covered: Housing, Travel, Food Allowance

Description: REU participants will work on a range of projects in collaboration with both industrial and academic mentors. These projects will cover a range of topics, and each student will work in a world class academic research laboratory with state-of-the art instrumentation. The participants will take part in a business and entrepreneurship oriented short course that will help them learn the mechanics of business and better understand how academic research becomes a commercial reality.

REU participants will have the opportunity to directly interact with their industrial mentors while also experiencing the academic laboratory environment. They will attend workshops that will teach them presentation and writing skills while seminars will also be given by local businessmen and entrepreneurs. At the end of the REU, students will participate in a networking event called *Innovation Connection*. The event regularly draws well over a hundred people from around the region.

An active social and recreational program will be included as part of the REU experience. Outdoor events, picnics, organized hikes, and trips to local metropolitan New York and Boston will be planned. Informal events will also be planned to enable participants to enjoy New England summer beauty. We will coordinate with other REU sites on campus (5 in the School of Engineering, 1 in the Department of Chemistry) to give participants the opportunity to meet students from other fields as well.

Projects for summer 2012 with their industrial partners include:

- Composites for Biomedical Applications, Teleflex Medical Inc.
- Forward Osmosis for Desalination and Water Reuse, Oasys Water
- Reaction Networks for Zeolites to Model Fluid Catalytic Cracking Kinetics, W.R. Grace and Co.
- Thermally integrated Water-Gas Shift reactors, FuelCell Energy
- Transformative Research in Solar Energy Harvesting, Scitech Solar
- 100% utilization of brown grease for biodiesel production, Bridgeport BioDiesel
- Functionalized Nanostructured Carbons for Energy Conversion and Storage, Physical Sciences Inc.
- Photo-initiated Chemical Vapor Deposition of Hydrogels, GVD Corporation
- Physical Properties and Transport in Pentablock Ionomers, Kraton Performance Polymers
- Development of advanced fire-retardant nanomaterials, United Technologies Research Center

To Apply:

Please visit our website at http://www.cmbe.engr.uconn.edu/outreach_reu.html and complete the online application.

Contact:

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Completed applications including two letters of recommendation are due by **April 1, 2012**. Applicants will be informed of decisions by mid-April.

