



2010 Summer Research Fellowships

NSF Research Experiences for Undergraduates

“Novel Advanced Materials and Processing with Applications in Biomedical, Electrical and Chemical Engineering”

The Departments of Bioengineering, Chemical Engineering, Electrical Engineering, and Mechanical & Industrial Engineering at the University of Illinois at Chicago (UIC) are pleased to announce the availability of **eleven** summer fellowships sponsored by the *National Science Foundation (NSF) Research Experiences for Undergraduates (REU)* and the *Department of Defense (DoD) ASSURE (Awards to Stimulate and Support Undergraduate Research Experiences) Programs*.

PROGRAM OVERVIEW

- For approximately 10 weeks during the summer fellows take residence at UIC, and conduct research under the supervision of faculty and staff from BioEngineering, Chemical Engineering, Electrical Engineering, and Mechanical & Industrial Engineering.
- Fellows take part in a variety of organized scientific and social events, including seminars, tutorials, workshops, and visits to local industries and attractions.
- Award includes: \$4,000 stipend and up to \$400 for travel. Up to \$1,300 is available for campus housing; this covers the full campus housing expense.
- Program dates: June 1 – August 6, 2010. (A later start date may be arranged if necessary.)

PROJECTS INCLUDE

- *Atomic layer deposition of novel multifunctional nanostructures*
- *Neural Interface Engineering and Analysis*
- *Nanotube-Based Nanofluidic Devices and Fundamental Fluid Studies at the Nanoscale*
- *Plasma-Assisted Synthesis of Nanolayer Catalysts*
- *Atomic scale characterization of functional oxide materials*
- *Broad Dissemination of BioMEMS Devices*
- *Hydrogen Storage Materials based on Boron*
- *Ultra-low thermal conductivity insulation*
- *Growth of Multiferroic Oxides*

Projects will utilize state-of-the-art experimental and computational facilities.

SELECTION AND ELIGIBILITY

- Open to students who are not graduating before December 2010. *US citizenship or permanent residence is required.*
- Selection is based on applicant's academic standing, a brief statement of interest, and two faculty references.
- Women and minorities are especially encouraged to apply.

**** Applications must be postmarked by February 28, 2010 ****
Later applications will be considered if we have space remaining in the program

For more information visit <http://www.uic.edu/labs/AMReL/NSF-REU.htm>
or contact us at reunsf@uic.edu

Applications should be mailed to the REU Directors Profs. C.G. Takoudis and G. Jursich, SEO 218, 851 S. Morgan Street, Chicago, IL 60607-7052 or submitted to reunsf@uic.edu.