

Information at: <http://www.uic.edu/labs/AMReL/NSF-REU.htm>

University of Illinois  
at Chicago



## 2009 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: \$3,900 stipend and up to \$400 for travel. Financial assistance of up to \$1,300 is available for campus housing; this should cover the full housing expense.
- Program dates: May 26 – July 31, 2009. (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 2009. 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, 2009 \*\***

*Later applications will be considered if we have space remaining in the program*

For more information visit our web site or contact: Prof. C.G. Takoudis [(312) 355-0859, REU Director] or Prof. G. Jursich [(312) 996-8373, REU Co-Director] or send e-mail to [reunsf@uic.edu](mailto:reunsf@uic.edu) .

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