

SUMMER 2009
(June 22 - August 14*)
UNDERGRADUATES
EXPERIMENTAL RESEARCH OPPORTUNITIES**
UNIVERSITY OF CINCINNATI
College of Engineering

Undergraduate students are invited to participate in the following research projects, details of which can be found in the Web Site given at the bottom of the flyer:

1. **Traffic Congestion Modeling Using Advanced Data Monitoring Technologies**
2. **Evaluation of Secondary Prying In Bolted Steel Frame Connections**
3. **Synthesis of Multi Functional Nanoparticles for Cancer Diagnosis and Treatment**
4. **Novel Electrowetting Dielectrics and Liquids**
5. **Microfluidic Sensors for Detection of Heavy Metals**
6. **Solid Oxide Fuel Cells - Electro-Chemical Performance Enhancement, Thermal Management, and Planar-Cell-Stack Miniaturization**
7. **Self-Healing Seals for Solid Oxide Fuel Cells (SOFC)**
8. **Thin-Film Solid Oxide Fuel Cells (SOFC) on a Silicon Chip**

Please send your application package*** to arrive by **April 3, 2009****** to:

Professor Anant R. Kukreti
Department of Civil and Environmental Engineering
P.O. Box 210071
University of Cincinnati
Cincinnati, Ohio 45221-0071

Phone: (513) 556-4105 or 1164, FAX: (513) 556-2599, E-Mail: anant.kukreti@uc.edu

* **Deadlines:** April 3 Application Deadline; April 10 or Earlier Admission Decision Notification; April 14 or Earlier Participation Confirmation; June 21 Students arrive on campus; and June 22 First day of REU program

FUNDED BY THE NATIONAL SCIENCE FOUNDATION

Applicants are expected to participate in writing technical papers for publication, conference presentations, and presentation at their home school after returning from the summer research experience.

** Applicants must be U.S. citizens or permanent residents who will be enrolled in a B.S. engineering degree program as a sophomore, pre-junior, junior or senior during the academic year 2009-2010 or is currently enrolled as a senior graduating by the end of the Fall 2009 term. Participants will receive a stipend to cover two months salary of \$2,500 (or \$1,250/month) plus a maximum of \$1,800 to cover costs for room (required to submit actual expenses incurred), board, and travel expenses. Woman and minority candidates will be given priority and are so encouraged to apply. Persons with disabilities will be accommodated.

*** On your application package, indicate your first, second, third, and fourth project of interest (any one must be acceptable); expected graduation date; GPA; course work completed and in progress; other experience which is relevant to the project areas (explain); a three to five page essay (double spaced) presenting your background and biographical information, explaining why you are interested in this program, how this program will benefit you and your career goals; and two recommendation letters from your instructors, each in a sealed and signed envelope. One of the recommendation letters must be from a faculty member who is willing to coordinate the presentation at your home school. Also, enclose an official copy of your recent transcript.

**** **Deserving candidates will be selected as the applications are received (in March). Apply early and do not wait till the last date in sending your application.** A total of 12 to 14 students will be selected.

The flyer and application form can also be viewed at the following Web Site:

<http://www.eng.uc.edu/reu/reuapplication.pdf>