

# EARN CASH & COLLEGE CREDIT!



## ACS NUCLEAR & RADIOCHEMISTRY UNDERGRADUATE SUMMER SCHOOLS

San Jose State University, San Jose, CA  
and  
Brookhaven National Laboratory, Upton, Long Island, NY



The Division of Nuclear Chemistry and Technology of the American Chemical Society (ACS) is sponsoring two **INTENSIVE** six-week Summer Schools in Nuclear and Radiochemistry for undergraduates. Funding is provided by the U.S. Department of Energy.

### AWARDS

**Fellowships include a stipend of \$4000**, all tuition and fees, transportation to and from the Summer School location, housing, books, and laboratory supplies. Transferable college credit will be awarded through the ACS accredited chemistry programs at San Jose State University (7 units) or the State University of New York at Stony Brook (6 units).

### QUALIFICATIONS

Candidates should be undergraduates, with an interest in nuclear science, who are presently in their sophomore or junior year of study at a U.S. college or university. They should have completed at least two years of chemistry, one year of physics, and one year of calculus. Applicants must be U.S. citizens.

### SELECTION

The Summer Schools are limited to 12 students at each site. Announcement of awards will be made in mid March 2011. The summer school session will run from June 12, 2011 through July 22, 2011.

### COURSE DESCRIPTION

The course will consist of lectures on the fundamentals of nuclear science, radiochemistry, and their applications in related fields. Laboratory work will introduce you to state-of-the-art instrumentation and technology used routinely in basic and applied nuclear science. In addition to the formal instruction, the course will include a Guest Lecture Series and tours of nearby research centers at universities and National Laboratories. Students will meet and interact with prominent research scientists from universities and the DOE national labs who are actually working in nuclear and radiochemistry, nuclear medicine, environmental restoration, and related fields.

### FUTURE RESEARCH OPPORTUNITIES

Participants in the 2011 Summer Schools will be encouraged to join a research project during the following summer at a university or federal research institution. Considerable personal assistance will be provided to secure summer positions and admission to Ph.D. and M.D. programs at leading universities.

An "**Outstanding Student**" is selected from each summer school site. These students will be invited to attend the following spring national meeting of the American Chemical Society with all expenses paid.

The "Outstanding Students" in the 2010 program were **Sean McCarthy of Providence College** from the BNL school and **Brandon Cisneros of Rice University** from the SJSU school. They have been invited to attend the 2011 Anaheim meeting of the American Chemical Society to be recognized for having achieved this distinction.

#### For more information contact:

Prof. Paul Mantica, Director  
Nuclear & Radiochemistry Summer Schools  
Department of Chemistry  
Michigan State University  
East Lansing, MI 48824

Tel: (517)-908-7456 Fax: (517)-353-5967  
Email: mantica@msu.edu

Completed applications must  
be received no later than  
**February 1, 2011**

More information & on-line application forms are available at:  
<http://www.cofc.edu/~nuclear/nukess.html>