

Research Experience at a National Light Source

Research Experience for Undergraduates Program (REU)
Synchrotron Radiation Center • May 31 - August 6, 2011

Gain valuable hands-on research experience at a world-class, scientific laboratory and light source that will help you with your decision of whether to pursue a career in science research. With a variety of topics in different fields of science to choose from, each project provides you with the opportunity of working closely with a mentor, improving your experimental and presentation skills, learning about graduate school, and interacting with other summer scholars at the University of Wisconsin-Madison.



Atoms and Molecules

Help unravel fundamental questions of the interactions between photons & molecules such as the bucky ball.



Environmental Science/Biophysics

Study the geology of the earth or look at biological organisms to understand their effect on climate change.



Material Science/Nanotechnology

Determine the chemistry and physics of materials and their application to modern technology.



Accelerator Engineering

Design the next generation Free Electron Laser light source through simulations and hands-on experiments.



Online application due February 15, 2011

More information available at <http://www.src.wisc.edu/outreach/reu/>

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Science Overview

The Synchrotron Radiation Center (SRC), a national facility funded by the National Science Foundation, operates an electron storage ring to provide synchrotron light as a tool for doing scientific research. Participants in the REU program will work directly with researchers on a hands-on project chosen from a variety of science fields. Previous projects investigated ultrananocrystalline diamond, coherent electron radiation, exotic low dimensional materials, biological disease research, atomic photo-ionization, and environmental problems such as the effects of global warming on algae. Mentors, graduate students, SRC staff, and other scientists will serve as resources for students as they complete their research projects.

Participating in this program will give students an opportunity to conduct research at a national laboratory as well as help prepare them for graduate school. Participants will meet scholars from various scientific and ethnic backgrounds who will also be doing research at UW-Madison during the summer.

Eligibility

To be eligible for the SRC-REU program, students must be U.S. citizens or permanent residents who are enrolled in a program which leads to a bachelor's degree. **Women and individuals from traditionally under-represented groups are strongly encouraged to apply.** Under-represented groups include African Americans, Hispanics, American Indians, Alaska Natives, Native Hawaiians and Other Pacific Islanders. We will give preference to students who are rising Juniors and Seniors, who come from institutions with limited research programs, have a strong interest in continuing on to graduate school in a scientific field, and who have a grade point average of at least 3.0.

Support

The program provides travel to and from Madison, housing, health insurance (if needed), transportation to SRC, a partial food allowance, and a stipend of \$5000. Students have access to all campus libraries and facilities. There are no fees or tuition costs.

Applying to the Program

The deadline for applying to the program is **February 15th, 2011**. Visit our website at www.src.wisc.edu/outreach/reu to learn more about the program including a description of possible research projects, eligibility requirements, comments from previous students, and a link to the online registration form. Questions? Contact Chris Moore at 608-877-2137 or reu2011@src.wisc.edu.