

# 2012 WISE WOMEN IN SCIENCE & ENGINEERING

## REWU RESEARCH EXPERIENCE FOR WOMEN UNDERGRADUATES

### Offers Summer Research Opportunities in:

- Allergy & Immunology
- Anthropology
- Biology
- Chemistry
- Computer Science
- Engineering
- Environmental Sciences
- Geography
- Geology
- Mathematics
- Nursing
- Nutritional Sciences
- Pathology
- Pediatrics
- Pharmacy
- Physics



Hillary Washington, of Biology & Neuroscience, used molecular biology techniques to study T-cell dysfunction in HIV infection. Mentor: Claire Chougnat, of Pediatrics.

Each student will work directly with a University of Cincinnati faculty mentor. Each week, all women in the program meet as a group to discuss their projects and to hear from guest speakers about a variety of topics including decisions about graduate work, giving professional talks, reading scientific journals, developing leadership skills, and other skills related to being a professional scientist. A final presentation provides an opportunity for students to participate in a professional research conference.

### Valuable Research Experience

No matter what your plans are after graduation, having hands-on experience working in a research environment will strengthen your job application or application for graduate studies.

### Spend your summer with the WISE REWU program and here's what you get:

- A \$4,000 stipend
- The opportunity to do scientific/technical research in a professional environment
- Mentoring by world-class research scientists

### Research Opportunities

The University of Cincinnati's Women in Science and Engineering (WISE) Committee is looking for women students to participate in the 2012 Research Experience for Women Undergraduates (REWU) program.

### Research Areas

Projects range from examining lead and copper contamination of domestic water systems, to simulation of building semiconductors, to analyzing orbits around compact astrophysical objects and black holes. Close to one hundred faculty have suggested an enormous variety of projects from which the students may choose. In previous years, up to 20 women per year have been selected to participate. We expect to have funding for 20 new students this summer.

Undergraduates are paired with faculty mentors, and work full time for 10 weeks (June 11 – August 17, 2012). Because students are immersed in the research experience, concurrent classes or employment are not possible.

The goal of this program is to attract young women into science and engineering fields through a supportive, structured, research environment.

Students interested in learning more about WISE and the REWU program can contact:

Professor Urmila Ghia, (513) 556-4612  
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The WISE/REWU Web site at:  
[www.wise.uc.edu](http://www.wise.uc.edu)

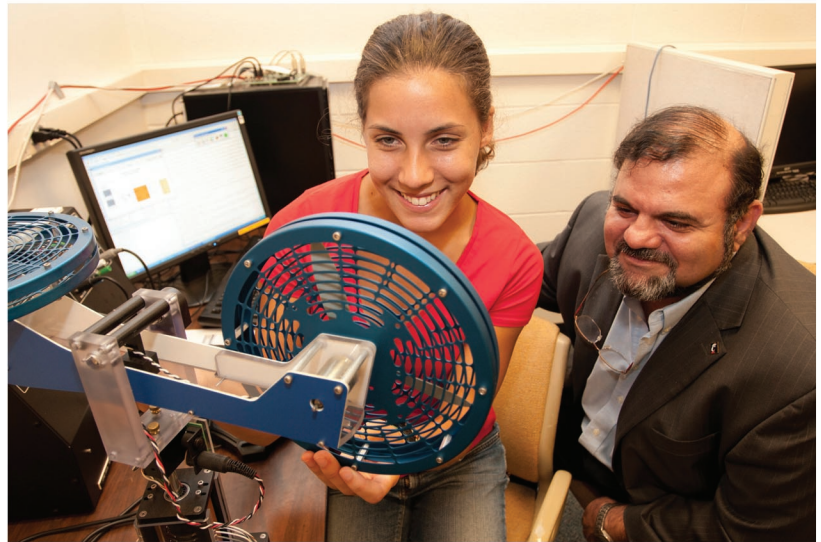
WISE is sponsored by:  
The University of Cincinnati's  
Women in Science & Engineering (WISE)  
[www.wise.uc.edu](http://www.wise.uc.edu)

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Kathleen Hurley, a chemistry major, worked with Dr. Ishi Buffam of Biological Sciences to examine the effect of native Ohio plants on storm-water-runoff quality in green-roof plots in Southwestern Ohio.



Sophia Mitchell, of Aerospace Engineering, studied linguistic reasoning for collaborative mobile robots. Mentor: Dr. Kelly Cohen.

### Comments from previous REWU students

*"This program allowed me to work full time in one of the top nanotechnology research labs in the country. It also helped me shape my career goals and educational aspirations. Thanks to WISE, I will ... finish my masters."*

*"I have learned to work independently and deal with disappointing results."*

*"Meeting so many strong, confident women was phenomenal. It gives me hope for the future. Also having the panel of previous students speak about their research experiences & post-graduate work gave me great insight."*

*"I have gained knowledge I would not have learned in my course work."*

*"I formed good friendships with people in my department and lab, as well as identified and shared a common experience with the girls of WISE. A more appropriate word may be 'family' or 'lifelong' friends."*

*"I got to shadow surgeons and see what happens after the anesthesia kicks in. This really peaked my interest in becoming a surgeon."*

*"This is a once in a lifetime opportunity!"*

*"I used to be scared of research, but now I have learned so much!"*

*"I had very good experiences working with this program: hands-on research, networking, and confidence. These experiences will forever continue with me throughout my life."*

*"The opportunity to do independent research, learn about the environment and process of research, work in a professional setting, gain experience and confidence in my abilities, improve my knowledge. This is a priceless opportunity."*

*".....It's a life changing experience."*

Application materials are available at [www.wise.uc.edu](http://www.wise.uc.edu).

Application Deadline: March 1, 2012

Announcement of accepted applicants will be made after April 1, 2012.