

# RESEARCH EXPERIENCES FOR UNDERGRADUATES

Summer 2012

Ohio Wesleyan University

INTERDISCIPLINARY SCIENTIFIC COMPUTATION

MAY 21 - JULY 27

Projects are focused on scientific computation in the following fields:  
**ASTRONOMY, COMPUTER SCIENCE, MATHEMATICS, PHYSICS**

- **RESEARCH TOPICS:** STELLAR SURFACE IMAGING, STUDYING NEUTRON-RICH NUCLEI, STATISTICAL INFERENCE WITH DATA SUBJECTED TO CENSORING, STUDYING THE PARTICLE PROPERTIES OF DARK MATTER, SHARED SHORTEST PATHS IN GRAPHS, QUANTUM BRAID GROUP REPRESENTATIONS, AND DYNAMICS OF JOSEPHSON JUNCTIONS.
- **SUPPORT:** \$4600 STIPEND (FOR 10 WEEKS), HOUSING PROVIDED, \$1000 FOOD ALLOWANCE, TRAVEL FUNDS.
- **ELIGIBILITY:** APPLICANTS MUST BE U.S. CITIZENS OR PERMANENT RESIDENTS AND MUST BE FULL-TIME UNDERGRADUATE STUDENTS. PREFERENCE WILL BE GIVEN TO STUDENTS WITH LIMITED RESEARCH OPPORTUNITIES AT THEIR HOME INSTITUTIONS AND/OR WHO HAVE NOT HAD A FOCUSED RESEARCH EXPERIENCE. MINORITIES AND WOMEN ARE ESPECIALLY ENCOURAGED TO APPLY.
- **REVIEW** OF APPLICATIONS WILL BEGIN **MARCH 5, 2012** AND WILL CONTINUE UNTIL ALL POSITIONS ARE FILLED.

For more information, see <http://reu.owu.edu> or contact: Dr. Brad Trees at [brtrees@owu.edu](mailto:brtrees@owu.edu), 740-368-3776.

