

RESEARCH EXPERIENCES FOR UNDERGRADUATES

Summer 2015

Ohio Wesleyan University

INTERDISCIPLINARY SCIENTIFIC COMPUTATION

MAY 18 - JULY 24

Projects are focused on scientific computation in the following fields:

ASTRONOMY, COMPUTER SCIENCE, MATHEMATICS, NEUROSCIENCE, PHYSICS

- **RESEARCH TOPICS:** STELLAR SURFACE IMAGING (ASTRONOMY), SEARCH FOR EXOTIC SHAPES IN THE “WILD WEST” OF THE NUCLEAR LANDSCAPE (NUCLEAR PHYSICS), STATISTICAL INFERENCE WITH DATA SUBJECTED TO CENSORING (STATISTICS), ARTIFICIAL INTELLIGENCE & MODERN BOARD GAMES (COMPUTER SCIENCE), QUANTUM BRAID GROUP REPRESENTATIONS (MATH), PALEOCLIMATE DYNAMICS (APPLIED MATH), AND SIMULATIONS OF EPILEPTIC SEIZURES (BIOPHYSICS).
- **SUPPORT:** \$5200 STIPEND (FOR 10 WEEKS), HOUSING PROVIDED AT NO CHARGE, \$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 2, 2015** 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, 740-368-3779.

