



CENTER OF EXCELLENCE FOR
RADIOACTIVE ION BEAM STUDIES
FOR STEWARDSHIP SCIENCE

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

**Postdoctoral Opportunities In
Center of Excellence For
Radioactive Ion Beam Studies for Stewardship Science
Experimental Nuclear Structure and Astrophysics**

Rutgers University and Oak Ridge Associated Universities (ORAU) invite applications for three postdoctoral openings in the Center of Excellence for Radioactive Ion Beam Studies for Stewardship Science. This Center will establish a consortium of nuclear scientists focusing on experimental studies at Oak Ridge National Laboratory's Holifield Radioactive Ion Beam Facility (HRIBF). The Center will focus on experimental studies utilizing light ion transfer reactions to provide information on nuclear cross sections and level density properties of nuclei. Charged-particle transfer reactions with radioactive ion beams available at the HRIBF will be the primary tool utilized. New techniques, detectors, and beams will be developed which will enable the measurements of properties of nuclei inaccessible by current techniques.

Two positions are open immediately and the successful candidates will become part of the team of scientists using light-ion transfer reactions to study properties of neutron-rich nuclei of interest to both nuclear structure and astrophysics. As part of these activities, a new array of silicon detectors will be designed, constructed, and commissioned for these experiments. A third position, announced separately, will concentrate on developing targets and ion sources for the production of radioactive ion beams at the HRIBF.

The successful candidates would be key members of a team formed by Professor Cizewski, Rutgers University and researchers from the U.S. universities in the UNIRIB consortium, and the HRIBF. These positions provide an excellent opportunity for an early career scientist to develop a research program as part of a new Center of Excellence. One of the candidates will be stationed at Rutgers University, New Brunswick, New Jersey with extensive travel to HRIBF to mount experiments and participate in analysis and interpretation. -The other candidate will be full time at HRIBF, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

Application materials can be downloaded from <http://www.orau.gov/orise/edu/needs/unirib.htm>.

A complete application file includes: a completed application form, résumé, publication list, three references, and written verification of doctoral degree award. These materials may be submitted electronically to dejarneb@orau.gov or by fax to (865) 576-0287, or mailed to: UNIRIB Stewardship Science Program, Oak Ridge Institute for Science and Education, Science and Engineering Education Unit, 200 Warehouse Road, MS 36, Oak Ridge, Tennessee 37830, attn: Bonnie DeJarnette. Applications will be evaluated on a continuing basis and competitive salaries and benefits are offered. Please reference the position title and number (UNIRIB-03-02) when corresponding about this position.

Questions concerning the positions should be directed to either:

Professor Jolie A. Cizewski: (cizewski@physics.rutgers.edu)
Dr. H. K. Carter (carterk@orau.gov)

These appointments are offered through the UNIRIB Stewardship Science Program and are administered by the Oak Ridge Institute for Science in Education (ORISE). The program is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.