



CENTER OF EXCELLENCE FOR
RADIOACTIVE ION BEAM STUDIES
FOR STEWARDSHIP SCIENCE



**Postdoctoral Opportunities In
Center of Excellence For
Radioactive Ion Beam Studies for Stewardship Science
Target and Ion Source Development**

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 measurements of properties of nuclei inaccessible by current techniques.

The position is open immediately and the successful candidate would become part of the team of scientists that will be using radioactive ion beams for nuclear structure and astrophysics studies. The successful candidate for this position would concentrate on developing targets and ion sources for the production of radioactive ion beams at the HRIBF. In addition, the successful candidate would be an active member of the beam development group of the HRIBF whose task is to develop targets, ion sources and beam delivery techniques. Two additional positions, announced separately, will concentrate on experimental nuclear structure and astrophysics research and developing the techniques and detectors to carry out transfer reactions measurements with unstable HRIBF beams.

The successful candidate would be a key member of a team formed by Professor Cizewski, Rutgers University and researchers from the U.S. universities in the UNIRIB consortium, and the HRIBF. The position provides an excellent opportunity for an early career scientist to develop a research program as part of a new Center of Excellence.

Application materials can be downloaded from <http://www.ornl.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@ornl.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-03-01**) when corresponding about this position.

Questions concerning the positions should be directed to either:

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

This appointment is offered through the UNIRIB Stewardship Science Program and is 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.