

Postdoctoral Research Associate in Organic Synthesis of Ion Receptors

**Chemical Sciences Division
Physical Sciences Directorate
Oak Ridge National Laboratory
Oak Ridge, Tennessee**

ORNL08-128-CSD

Project Description:

The successful candidate will perform research aimed at the organic syntheses of novel molecular and self-assembling ion receptors for multidisciplinary studies of selectivity in separations and ion binding. The central question pertains to whether selectivity can be achieved by a molecular design approach incorporating the principles of ion recognition and transport. To address this question, the Chemical Separations Group is proceeding along three lines dealing with issues of design strategy, correlation of structure and separation efficacy with design predictions, and the potential of self-assembly. Additional information on the group's research can be obtained through the website:

<http://www.ornl.gov/sci/casd/csg/>.

Qualifications:

This position requires a Ph. D. in Chemistry or related field. All degree requirements must be completed before starting the appointment. Primary achievement in the area of organic synthesis is a key criterion. Additional experience or knowledge is desirable in some of the following: spectroscopic techniques (NMR especially, MS, IR, etc.) and supramolecular/nanochemistry concepts. Scholarly writing skills are essential and will be part of the evaluation. The individual must be a self-starter and be able to work in a team environment. Candidate must be safety conscious and be able to demonstrate use of prudent safety practices.

How to Apply:

Qualified applicants may apply online at https://www2.ornl.gov/ORNL_POST/. All applicants will need to register before they can begin the online application. For complete instructions, on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/orni-pdpm/application.htm>. When applying for this position, please reference the position title and number.

This appointment is offered through the ORNL Postgraduate Research Participation Program and is administered by the Oak Ridge Institute for Science and 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.