

**Postdoctoral Research Associates in  
Computer Science and Mathematics Research  
Computer Science and Mathematics Division  
Computer and Computational Sciences Directorate  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee**

**ORNL08-102-CSMD**

**Project Description:**

This position requires an outstanding candidate with demonstrated expertise in computational methods for 2D sonar arrays. Successful candidates must have broad experience in underwater signal processing methods. The development and implementation of algorithms on distributed multicore processor architectures is desirable, specifically experience with the CELL Broadband Engine processor architecture is sought. Programming skills in FORTRAN 95/2203 and C (IBM XLF and XLC compilers for multicore acceleration) are essential. The position requires the ability to obtain and maintain a U.S. Department of Energy (or a Department of Defense) security clearance. Such clearances typically require US citizenship.

**Qualifications:**

Ph.D. degree is required. Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment. Requires broad experience in underwater signal processing methods, plus programming skills in FORTRAN 95/2203 and C (IBM XLF and XLC compilers for multicore acceleration) are essential. The position requires the ability to obtain and maintain a U.S. Department of Energy (or a Department of Defense) security clearance.

**How to Apply:**

Qualified applicants may apply online at [https://www2.ornl.gov/ORNL\\_POST/](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/ornl-pdpm/application.htm>. When applying for this position, please reference the position title and number.

This appointment is offered through the ORNL Postdoctoral Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU). This appointment 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.