

High Performance Recruiting Changing the World One Career at a Time

Presented by

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Recruiter

Computing and Computational Sciences Directorate
Oak Ridge National Laboratory



What is the Computing and Computational Sciences Directorate (CCSD) at ORNL?

Oak Ridge National Laboratory's Computing and Computational Sciences Directorate conducts state-of-the-art research and development in computer and computational sciences in support of DOE's missions and programs. We develop and deploy leading-edge computing and information technology capabilities to keep computational sciences at a level comparable to experimental sciences in the pursuit of scientific discovery and technical innovation



Career opportunities at ORNL

- **As Oak Ridge National Laboratory works to expand its research programs, we are working to acquire new talent for the next generation of great science. To achieve success in new scientific frontiers, we are focusing on establishing a pipeline of scientists and engineers to perform frontier research at our world-class facilities**
- **What types of opportunities does ORNL offer?**
 - Full-time staff positions
 - Distinguished fellowships
 - Student and postgraduate opportunities
 - Collaborative research opportunities

Full-time staff opportunities at ORNL

- **Example opportunities include**
- **Climate computational scientists**
- **Computational scientists—large scale computational simulation**
- **High-performance computing administrators**
- **High-performance computing user support**
- **Tools developers**

Distinguished fellowship opportunities

- **Alston S. Householder Fellowship**
- **Clifford G. Shull Fellowship**
- **Alvin P. Weinberg Fellowship**
- **Eugene P. Wigner Fellowship**
- **Find out more about fellowship opportunities at**
<http://www.ornl.gov/~2ve/Fellowships/Fellowships.html>

What is CIRE?

A.K.A. the UT Energy Campus at Oak Ridge

**University of Tennessee, Knoxville – Oak Ridge National Laboratory
Center for Interdisciplinary Research and Graduate Education**

“In January 2010, the General Assembly of the State of TN passed legislation authorizing the University of Tennessee to establish an academic unit of UTK for interdisciplinary research and graduate education in collaboration with ORNL. This academic unit, known as CIRE, will bring together extensive and complementary resources at UTK and ORNL to increase science, technology, engineering, and mathematics (STEM) academic and research activities of national significance focused on energy-related science and engineering.”

Proposal of the Task Force to Create and Implement the University of Tennessee, Knoxville – Oak Ridge National Laboratory Center for Interdisciplinary Research and Graduate Education

UTK Energy Campus at Oak Ridge: Status

Graduate Program in Energy Science and Engineering

- New PhD degree proposal being developed for approval by UT Board of Trustees
 - Curricula
 - Specialization areas will ensure a “deep dive”
 - Entrepreneurship option
 - Requirements
 - Faculty appointments
- Search under way for director
- Graduate student recruiting begins this fall

Center for Interdisciplinary Research and Graduate Education

- Center proposal approved by UTK Graduate Council
 - Governance
 - Business model
 - Recruiting
 - Admissions
 - Student life
 - Research program
- Inaugural class: Fall 2011
- UTK/ORNL Distinguished Fellowship Program provides a 2010 pilot

Research Alliance in Math and Science: Student Program

- The Research Alliance in Math and Science is sponsored by the Office of Advanced Scientific Computing Research targeting African American, Hispanic American, Native American, and female students majoring in Computer Science, the Computational Sciences, Mathematics, Engineering, Cybersecurity, and other areas in high-performance computing
- Undergraduate and graduate students intern at ORNL during a summer term of 10–12 weeks. Each student is assigned to a research mentor to work on a project of interest to the student, the student's professor(s), and the ORNL researcher. Requirements of the program are to keep a daily journal of activities and experiences, attend weekly technical seminars, attend skills-enhancing workshops, write a summary paper describing the research project, give an oral presentation of research results, and present the project in poster sessions and symposia at ORNL and national conferences. The participant may arrange academic credit through his/her college or university

Find out more about the program and how to apply:

<http://computing.ornl.gov/internships/RAMS.html>

ORISE: Student and postgraduate programs

- **ORNL partners with the Oak Ridge Institute for Science Education (ORISE) to provide educational and research opportunities to students and postgraduates**
- **ORNL and ORISE bring in over 400 students to the Lab each summer through various internship programs**
- **There are over 200 postgraduates currently working on research projects throughout the Lab**
- **For more information on student and postgraduate programs at ORNL or to apply, please visit <http://www.ornl.gov/orise/edu/ornl/postneeds.htm>**

Real science. Real life.

- Favorable cost of living
- Outstanding schools
- Diverse employee population
- Outdoor activities
- Cultural amenities

Recreation—boundless possibilities

Knox County features more than 60 miles of greenway paths, open gardens, historic homes, and the shimmering Tennessee River. The famous Great Smoky Mountains National Park is less than an hour away



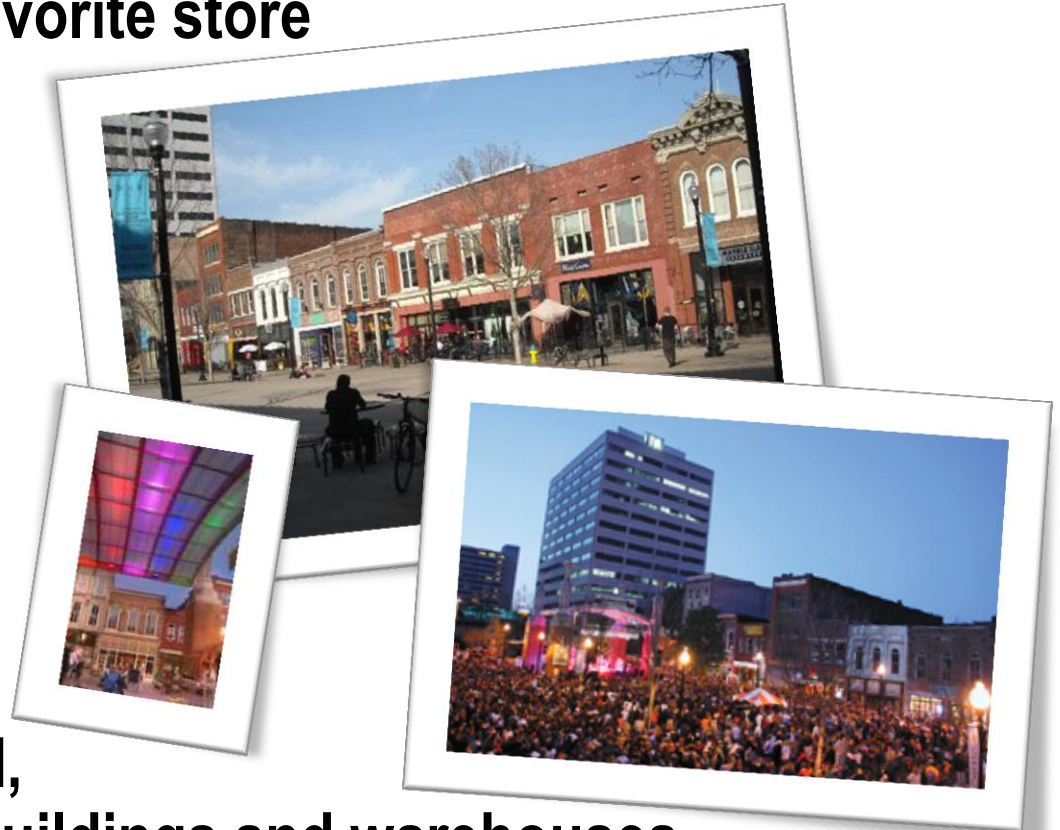
Recreation—boundless possibilities

Knoxville is home to the University of Tennessee Volunteers, one of the nation's most revered college athletic programs. Oak Ridge is a short drive to professional sports team venues in the Southeast



Shopping and dining—familiar and eclectic

- With malls and shopping centers totaling more than a hundred, you'll find your favorite store
- Knoxville features cuisine from around the world, from East Asian to Pan-European, and world-famous local eateries
- The Market Square District in downtown Knoxville features quaint, unique specialty shops in restored, turn-of-the-century office buildings and warehouses



Schools—simply outstanding

- ***Newsweek* ranks Oak Ridge High School in the top five percent of high schools nationally. The Advanced Placement program is ranked in the top two percent**
- **Oak Ridge High School graduates a remarkable number of National Merit Scholars, and student scores on ACT and SAT tests consistently exceed national averages**
- **More than 70 percent of almost 400 teachers and administrators at Oak Ridge public schools hold a master's or higher degree**

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