



The caliber of facilities at Oak Ridge National Laboratory is unmatched. Our people perform the most influential and collaborative science and engineering of their careers, and Oak Ridge features more user facilities than any other national lab, including The Center for Nanophase Materials Sciences, the Office of Science's Leadership Computing Facility—home to the world's most powerful open science computing—and the Spallation Neutron Source.

## **NEUTRON SCIENCE**

### **Leading the World as the Center for Neutron Science**

The **Spallation Neutron Source** and the **High Flux Isotope Reactor**—diverse applications of neutron scattering research provide unique opportunities, especially in the burgeoning field of materials science.

## **BIOLOGICAL SYSTEMS**

### **Exploring Sustainable Options for Energy, Environmental Protection and Human Health**

Facilities like the new **BioEnergy Science Center** help modify plants to reduce the need for chemical treatments in agriculture, convert biomass to biofuels, and ensure sustainability of lignocellulosic biofuel production.

## **ADVANCED MATERIALS**

### **Strengthening Industrial Competitiveness**

The world's most powerful electron microscope and the **High Temperature Materials Laboratory**—insight to the microstructure, microchemistry and physical and mechanical properties of materials. The **Center for Nanophase Materials Sciences**—specialized tools for synthesis, characterization, and fabrication of novel nanoscale materials and assemblies. The **Transportation Program**—fuels and engines, advanced structural and propulsion system materials, power electronics and electric motors, policy analysis, DOE FreedomCar program.

## **HIGH-PERFORMANCE COMPUTING**

### **Facilitating Solutions for Sustainable Energy, Climate Change and Human Health**

The **Jaguar supercomputer** is the world's fastest for open science and **EVEREST** is a 30-foot by 8-foot, 35-million-pixel interactive visualization system that displays massive amounts of data and computational results in extreme detail.

## **ENERGY ALTERNATIVES**

### **Probing Energy Production, Distribution, Use and the Effects of Energy Policy on Society**

Breakthroughs await in cellulosic biofuels made from non-food sources to reduce greenhouse gas emissions, safer nuclear power, energy-efficient cars and homes, green architecture, hybrid and electric vehicles, smart grid technologies, and weatherization.

## **NATIONAL SECURITY**

### **Improving Global and Homeland Security**

Delving into nonproliferation policy initiatives, nuclear material retrieval operations, nonproliferation analyst training, technology to safeguard nuclear materials, scientific support to homeland security agencies, and incident management systems for the detection, identification, and assessment of chemical, biological, radiological, nuclear threats.

Favorable cost-of-living, outstanding schools, diverse employee population, outdoor activities and the cultural amenities of nearby Knoxville, Tennessee, provide the 4,400 staff at Oak Ridge National Laboratory a rich life beyond work. The Lab is less than a day's drive from  $\frac{3}{4}$  of the country, and the 130 daily flights to or from Knoxville's McGhee Tyson Airport makes the area extremely accessible.

**ARTS:**  
**Visual and Performing**

**Knoxville Museum of Art** – Showcases exhibitions from around the world and a permanent collection of contemporary art. Accredited by the American Association of Museums.

**Knoxville Ballet** – Professional ballet company stages quality performances throughout the year.

**Knoxville Symphony Orchestra** – Guest artists and superstar entertainers join the virtuoso musicians for a full concert season.

**Tennessee Theatre** – A jewel of historic Knoxville. A variety of popular musical and performing artists.

**American Museum of Science and Energy** – Features multiple levels of interactive exhibits for kids and adults.

**Oak Ridge Community Playhouse** – The southeast's oldest continually operating community theatre.

**RECREATION:**  
**Boundless Possibilities**

**More than 60 miles** of greenway paths, open gardens, historic homes, the shimmering Tennessee River and the famous Great Smoky Mountains National Park are located in Knox County.

**Home to America's most-visited aquarium**, with the world's longest underwater tunnel and more than 8,000 exotic sea creatures.

**Dozens of golf courses** within driving distance make eastern Tennessee a golfer's paradise.

**SHOPPING AND DINING:**  
**Familiar and Eclectic**

Quaint, unique specialty shops located in **Knoxville's Market Square District**.

Knoxville features cuisine from around the world, from East Asian to Pan-European and **world-famous local eateries**.

With more than a hundred malls and shopping centers, **you'll always find your favorite store**.

**SCHOOLS:**  
**Simply Outstanding**

From pre-school through adult education, the **Oak Ridge School System** spans all levels of education and *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. Additionally, the system offers a before and after school **extended childcare program**.

Oak Ridge High School recently underwent a **\$55 million, award-winning renovation** and its number of **National Merit Scholars**, and ACT and SAT scores consistently exceed the national average.

UT-Battelle, Oak Ridge's management contractor, has provided **\$8 million** in support of **math and science education, economic development** and other projects in the region.

More than **70 percent of the 400 teachers** and administrators at Oak Ridge public schools hold a **master's or higher degree**.



**Real Life.**