

Executive Director and Vice Provost

Oak Ridge Institute
at the University of Tennessee



Oak Ridge National Laboratory



AT A GLANCE

Established in **1943**
as part of the Manhattan Project

\$2.2B annual budget

9 national
user facilities

5,400 employees

3,200 visiting
scientists

221 R&D 100 Awards

2 Nobel Prize winners

46 National Academy
members

17 UT-ORNL Governor's Chairs

9 university core
research partners

9 new elements discovered

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Big Science. Big Opportunities.

Oak Ridge National Laboratory (ORNL) was created to help win a war and change the world. We have always adapted to meet national needs, developing expertise, tools, and even entirely new fields to solve the most difficult scientific and technical challenges.

- **We pioneered nuclear energy, science, and engineering**, developing techniques, technologies, and training programs that led to commercialization of nuclear power and creation of the nuclear navy.
- **We produce life-saving medical isotopes** and operate the National Isotope Development Center for the US Department of Energy (DOE).
- **We developed neutron diffraction**, a scientific technique available to researchers who use two of the world's most powerful neutron sources at ORNL for studies of materials, medicines, disease progression, and more.
- **We create new materials**, including alloys with billion-dollar impacts on industry and unique properties that enable NASA to explore outer space.
- **We build some of the world's most powerful supercomputers**, with three No. 1 systems since 2009 and one of the world's first exascale systems, Frontier, due in 2021.
- **We printed a car** (and a house, jeep, boat ...) to study methods for improving the efficiency and productivity of manufacturing processes that give American industry a competitive edge.
- **We secure the nation** with expertise from across our research portfolio, sending teams worldwide to keep nuclear materials safe, pursuing cybersecurity for the power grid, and more.
- **We discovered the sex-determining role of the Y chromosome** and make breakthroughs in biology from genes to ecosystems, providing insights benefiting biotechnology, biosecurity, and biofuels.
- **We invented radioecology** and lead large-scale experiments in the Arctic and other remote locations.

*Join us on
our quest to
deliver scientific
impact that
changes the
world.*

We always ask, "What's next?" We stand ready for the unexpected. Today, we are applying our expertise in several areas in the global fight against COVID-19, and we are looking to the future.



Building the World's Premier Research Institution

National labs are distinguished by their ability to assemble large teams of experts from a variety of scientific and technical disciplines to tackle compelling national problems. They also design, build, and operate powerful scientific facilities that are available to the international research community.

From the start, ORNL has applied scientific discoveries and new technologies to address pressing challenges in the areas of clean energy and global security and to create economic opportunity for the nation. Today, Oak Ridge is the most diverse of the Department of Energy's 17 national laboratories, providing leadership in energy research and technology, advanced materials, nuclear science and engineering, neutron science, isotope production, national security, environmental and biological sciences, and high-performance computing.

Resources like these enable the United States to compete in what former ORNL Director Alvin Weinberg called the arena of "Big Science" and they empower our researchers to pursue knowledge that's fundamental to solving some of our world's greatest challenges.



Advanced Materials

We developed a new class of affordable, lightweight superalloys that can withstand temperatures almost 100 degrees Celsius hotter than existing commercial alloys in complex engine parts.



Clean Energy

Our magnetic coils and power electronics enable the extreme fast charging of electric vehicles—wirelessly. ORNL's expertise also supports industry and has set standards for energy efficiency.



National Security

The Mobile Uranium Facility equips ORNL staff to characterize, process, package, and transport uranium materials anywhere in the world. We are using our scientific capabilities to counter enduring and emerging threats to national security.



Neutron Science

We use neutrons to directly observe battery behavior in pursuit of safer, more reliable energy storage and extended battery life, to study the behavior of drugs in combating disease, and much more.



Nuclear Science

A multidisciplinary team is printing a microreactor to help industry address high costs and lengthy deployment timelines that threaten the future of nuclear energy—the nation's largest carbon-free energy source.



Supercomputing

Our scientists are cracking the code on opioid addiction using Summit, one of the world's fastest supercomputers, to perform immense calculations on genomic data. Summit provides unique multi-precision computing capabilities that are ideal for artificial intelligence and machine learning applications.



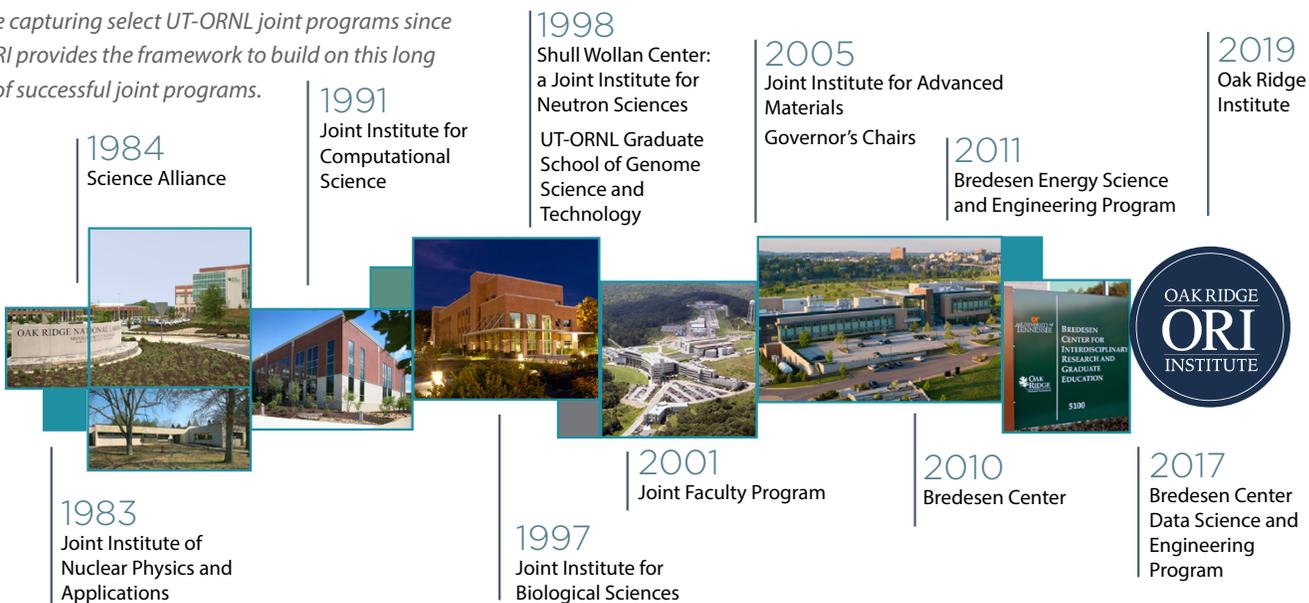
About the Oak Ridge Institute

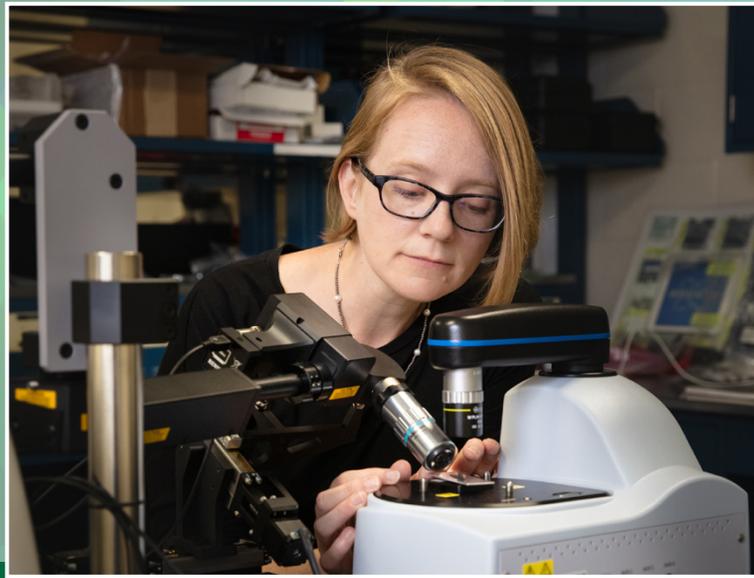
The Oak Ridge Institute (ORI) at the University of Tennessee (UT) is a partnership of Oak Ridge National Laboratory (ORNL) and UT created to prepare interdisciplinary leaders in energy science and technology and develop a world-class workforce for industry, government, and academia that will drive innovation and create the industries of the future.

Today's energy economy is driven by disruptive technologies and swift change. The US is in a global competition for jobs, talent, and investment. To successfully compete, we must develop leadership talent in research and development (R&D), encourage entrepreneurship, and create an educational environment that promotes rapid innovation and attracts skilled professionals.

Working together, UT and ORNL have developed joint institutes, joint facilities, interdisciplinary PhD programs, and comprehensive joint faculty arrangements, including 17 Governor's Chairs recruited for the significance of their impacts in their fields. ORI's coordinated expansion of these successful programs will prepare the next generation of exceptional scientists and engineers while and build a global innovation hub in Tennessee.

Timeline capturing select UT-ORNL joint programs since 1983. ORI provides the framework to build on this long history of successful joint programs.





Building the Technology Talent Pipeline for America

ORI will create a robust talent pipeline in areas of growing national need and demand. As a result, Tennessee will become the go-to destination for top-level talent development and discovery.

The Institute will address top-tier industry and workforce needs emerging from the introduction of automation and artificial intelligence. The Institute will develop scientists and engineers who will be locally relevant and globally competitive. Students will learn innovation and interdisciplinary problem-solving skills that prepare them to be leaders in fields that may not exist today.

Mission

ORI's mission is to strategically align the expertise and infrastructure of UT and ORNL to usher in world-class interdisciplinary research and graduate education.

Vision

ORI's vision is to become a center for convergent research and talent development, helping maintain US prominence as a global innovation leader and providing tangible benefits to Tennessee.

The overarching goals of ORI are to:

- establish robust partnership platforms that promote industry engagement, entrepreneurship, and technology implementation for economic and community development;
- provide flexible mechanisms that promote discovery and innovation, especially in areas related to data science and technology, advanced materials, and outcomes-based applications;
- build on existing joint programs to strategically integrate collaborative opportunities between UT and ORNL; and
- offer an enriched interdisciplinary educational and research experience for students.

“The Oak Ridge Institute at the University of Tennessee is an inspired idea that will meet head-on one of the most strategic needs of our country by creating a new pipeline of American-trained scientists and engineers to help the United States compete in the global economy. It also will remind everyone of the excellence and prestige of two institutions—the nation's largest science and energy laboratory and a major research university—who have been combining forces for several decades for advanced research and the teaching of innovation and problem-solving among multiple science disciplines.

– US Senator Lamar Alexander

OAK RIDGE INSTITUTE Executive Director and a partnership of the University of Tennessee

The Executive Director and Vice Provost of the Oak Ridge Institute (ORI) at the University of Tennessee (UT) is accountable to the ORNL Laboratory Director and serves as the senior leader responsible for the oversight of all ORI operations and activities at UT, as well as, development, planning, and implementation of strategies for enduring success and impact.

In this capacity, the Director serves as the strategic thought leader responsible for (1) establishing a compelling future vision complemented by a strategic execution plan for enduring sustainability, (2) strengthening stakeholder engagement and relationship management with new and existing major sponsors, and (3) driving staff growth and development while creating organizational momentum that enhances our facilities and capabilities. Emphasis is placed on strengthening collaborative research opportunities and graduate education prominence jointly with UT's colleges and ORNL's science and technology (S&T) directorates. The Vice Provost role is accountable and responsible to the UT-Knoxville Provost on academic matters.



ORI will be primarily located on the campus of ORNL to ensure close and enduring collaborations in areas of interest to both UT and ORNL. ORI will expand UT-ORNL joint programs, including joint institutes; the joint faculty program; joint educational programs (i.e., the Bredesen Center and Genome Sciences and Technology); Governor's Chair and Distinguished Scientists programs; and Science Alliance. ORI will leverage the physical infrastructure and facilities at ORNL and follow all applicable rules and regulations to ensure quality standards and safe conduct of research.

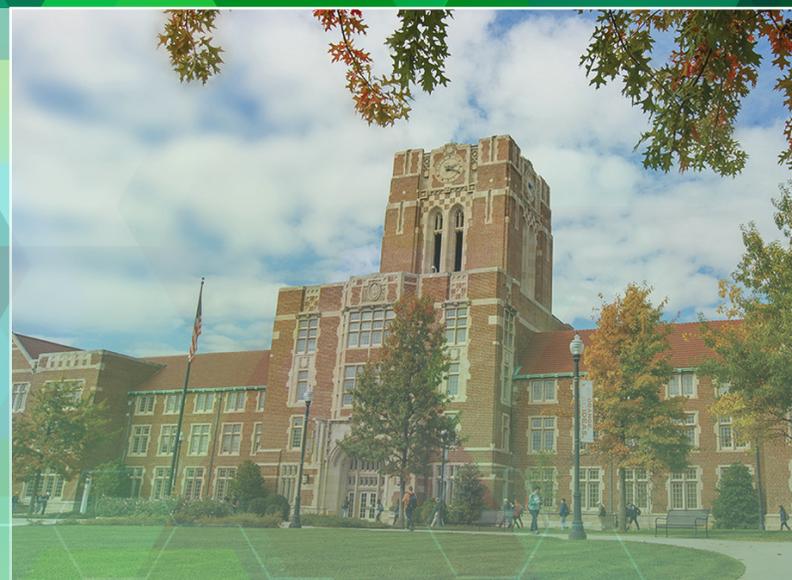
STITUTE Vice Provost

ty of Tennessee and Oak Ridge National Laboratory

Roles and Responsibilities

- Develop vision, strategies, and roadmaps to establish leading-edge interdisciplinary graduate research in emerging fields of interest to both UT and ORNL.
- Build world-leading programs between UT and ORNL that leverage S&T strengths across the two institutions.
- Lead recruitment of ORI faculty and staff required to accomplish joint educational and R&D programs. Allocate resources and guide priorities for developing and retaining a diverse faculty and staff. Manage human resources (e.g., performance, salary, development, succession planning, discipline).
- Establish a strategic process for attracting, developing, motivating, and retaining the highest quality students for ORI educational programs who will become future science and engineering leaders.
- Facilitate reviews of ORI joint faculty and Governor's Chairs with the appropriate UT department and ORNL directorate.
- Develop strategies to encourage the creation and commercialization of technology, especially through the development of industry partnerships and entrepreneurship.
- Provide leadership and oversight to ensure the strategic alignment of operations (including financial, communications, and infrastructure), strategic planning, program development, and educational missions.
- Develop and maintain procedures and regulations to ensure compliance with applicable laws, regulations, DOE directives, the ORNL management and operating contract, and UT and ORNL policies, as appropriate.





Qualifications

- PhD in a technical field with an outstanding record of scholarly achievement and excellence.
- Exceptional and proven leadership abilities, a vision and commitment to excellence in graduate education, a distinguished record of research program development, a record of teaching achievement, an enthusiasm for engagement, and a dedication to championing diversity, equity, and inclusion.
- Demonstrated experience in the creation, support, and/or deployment of innovative new curricula, degree programs, and/or student programs that inspire a dynamic, dedicated, and talented team of colleagues.
- Exceptional communication skills that support building relationships with internal and external partners and representing the organization in a compelling fashion.
- Success in developing, implementing, and executing scientific strategies with engagement from critical stakeholders.

Preferred Qualifications

- Qualifications appropriate to hold the rank of Professor for joint appointment in a UT department.
- A professional track record in areas relevant to all ORI missions.
- Substantial experience working for or collaborating with DOE national laboratories or similar organizations.

Requirements

This position requires the ability to obtain and maintain a security clearance from the Department of Energy. This position therefore is designated for Workplace Substance Abuse Program (WSAP) testing. WSAP positions require passing a pre-placement drug test and participation in an ongoing random drug testing program.

We're seeking passionate leaders who will help us become the world's premier research institution.



About the University of Tennessee

Founded in 1794, the University of Tennessee (UT) is a statewide system of higher education with campuses in Knoxville, Chattanooga, Martin and Memphis; the UT Space Institute in Tullahoma; the UT Institute of Agriculture with a presence in every Tennessee county; and the statewide Institute for Public Service.

Today, UT is the state's oldest and largest public higher education institution enrolling 50,000 graduate and undergraduate students and employing 25,000 faculty, staff, and student workers. UT is Tennessee's largest talent development engine, producing 11,000 graduates each year. In 2017, the UT System generated nearly \$3.5 billion in income, created 71,086 jobs in Tennessee, and was responsible for \$325.2 million in tax revenue for the state and local government.

Research is a critical part of the University's mission as a land-grant institution. UT faculty and students system-wide are involved in research, adding to the body of knowledge in academic disciplines and providing solutions to everyday problems. The University is classified as a research university with very high research activity (RU/VH) by the Carnegie Commission and conducted a record \$481 million in research and sponsored program expenditures in 2017.

The UT Research Foundation (UTRF) is among the world's top university producers of patents granted by the US Patent and Trademark Office. It has successfully licensed over half of its patent portfolio and actively manages over 200 technology license agreements.

The UT System, through its multiple campuses and institutes, serves the people of Tennessee and beyond through the discovery, communication, and application of knowledge. UT is committed to providing undergraduate, graduate, and professional education programs in a diverse learning environment that prepares students to be leaders in a global society.

AT A GLANCE

400,000
alumni world-wide

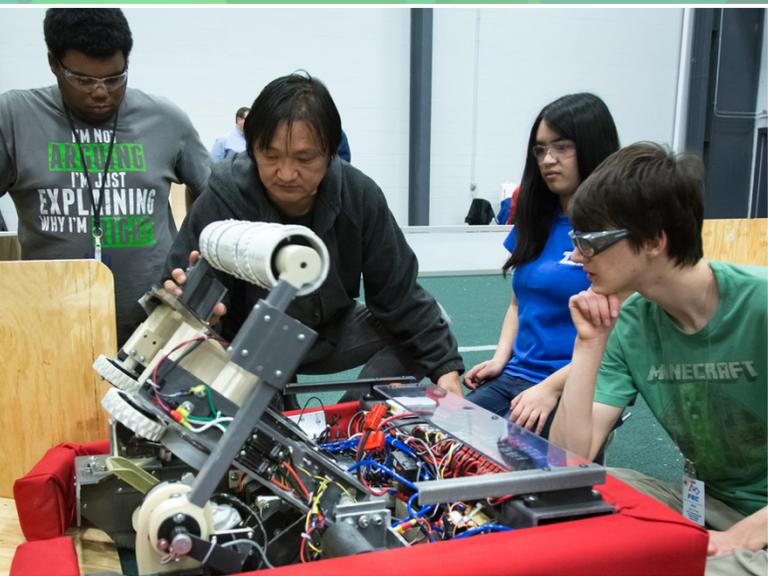
50,810 total
enrollment, fall 2018

90+ new
company startups

29 US patents
issued, 2018

\$481 million
in research
expenditures, 2017

71,806
jobs in Tennessee,
2017



Community and Culture

The strong partnership between DOE and ORNL contractor UT-Battelle, LLC, has created a national resource that draws outstanding researchers in a wide range of disciplines to world-class facilities where they tackle fundamental scientific challenges, couple discoveries with applied research, and work with industry to translate results into commercial applications. The work of the laboratory is being performed safely and efficiently in a modern campus setting. Throughout the region, ORNL is regarded as a high-value asset for innovation, education, and economic development.

Discover East Tennessee

East Tennessee offers a variety of resources and experiences ranging from mountains, rivers, lakes, and a full menu of outdoor adventures to championship college teams and minor-league baseball to the arts and culture of Knoxville, including the internationally recognized [Big Ears Festival](#). The city is recognized as one of the country's best places to live, in part thanks to its [Urban Wilderness](#) system linking residential and commercial areas with the great outdoors. ORNL is within a day's drive of 50 percent of the nation's population and all of the East Coast's major cities.

Our Workforce

ORNL is a great place to chart your own research course, work with like-minded colleagues, and build an extraordinary career. With more than 5,400 employees representing more than 60 countries, we assemble teams of experts from diverse backgrounds, equip them with powerful instruments and research facilities, and address compelling national problems.

In addition, ORNL offers professional development training at no cost to employees, provides professional networking opportunities, and sponsors employee resource groups that support diversity and inclusion efforts across the lab.

Diversity and Inclusion

ORNL's ability to build and sustain a highly skilled workforce in a rapidly changing competitive environment for talent is greatly influenced by our ability to plan and forecast workforce needs and promote diversity. Maintaining an inclusive environment is a business imperative that focuses on people in all areas of the laboratory and on maximizing the unique talents of individuals, teams, and business partners to pursue world-leading scientific impact.



We Welcome Your Application

Our challenge now is to sustain our leadership and build on our success. Thank you for your interest in ORNL and how we are helping to address some of the big science challenges facing our nation and the world.

Apply Today

Apply at jobs.ornl.gov

Equal Employment Opportunity

ORNL is an equal opportunity employer committed to a diverse and inclusive workplace that fosters collaborative scientific discovery and innovation. All qualified applicants, including individuals with disabilities and protected veterans, are encouraged to apply.

CONTACT

Gary Worrell
Director, Talent Acquisition
worrellgs@ornl.gov
1 Bethel Valley Road
Oak Ridge, TN 37831
jobs.ornl.gov

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