

POSTDOCTORAL PROGRAM

Launch an Exciting Career in Science and Engineering

For more than 75 years, Oak Ridge National Laboratory has helped shape our world with discoveries in neutron science, high-performance computing, advanced materials, biology and environmental science, nuclear science and isotopes, and national security. ORNL offers dedicated mentors, world-leading scientific resources, and professional development opportunities to well-qualified PhD students and outstanding early-career scientists or engineers.





\$2.4B FY20 funding



5,700+ employees



3,200+
guest researchers
annually



60+
nationalities
represented in
ORNL's workforce



Nobel Prizes



Contributed to the discovery of 11 elements, including #117, tennessine



818US patents issued since 2007



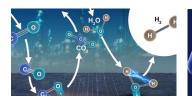
2,000+
FY21 scientific journal publications





Solve Big Problems with International Impact

As a postdoctoral researcher at ORNL, you will have the opportunity to work with and be mentored by world-class scientists and engineers. You will work to solve today's tough scientific and engineering challenges, with international impact.



Advanced Materials: ORNL and university collaborators used neutron scattering and other advanced characterization techniques to study how a widely used catalyst enables the water-gas shift reaction to purify and generate hydrogen at an industrial scale.

National Security: Using

ORNL's Vehicle Security Lab,

researchers are pioneering a set

of algorithms and technology

that will detect a cyberattack

on a moving vehicle and alert

the driver.



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Gate Precast demonstrated that 3D-printed molds are more durable than traditional ones in producing precast concrete façades for a 42-story building at the Domino Sugar Factory site in



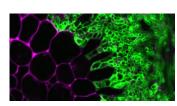
Isotopes: NASA's Mars rover Perseverance, which started exploring the red planet in early 2021, is powered by ORNLproduced plutonium-238. Pu-238 decay generates heat converted to electricity by the rover's radioisotope thermoelectric generator to power lithium-ion batteries.



Nuclear Science: ORNL has developed MiniFuel, a miniature irradiation vehicle for rapid nuclear fuel experiments. Conventional fuel test pellets have volumes more than 1,000 times the size of MiniFuel's pinhead-size fuel kernels.



Neutron Science: Using the Spallation Neutron Source, ORNL researchers observed crystalline ice phases, enabling them to challenge previous theories about super-cooled water and noncrystalline ice and promote better understanding of various ice phases found in space.



Supercomputing: Using ORNL's Summit supercomputer. scientists uncovered the specific gene that controls an important symbiotic relationship between plants and soil fungi. The discovery could lead to more productive, diseaseresistant crops.

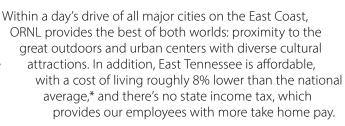
ORNL Postdoctoral Association

ORNL Postdoctoral Association fosters a sense of community among our postgraduate research staff; advocates for the postgraduate community with ORNL leadership; facilitates career development; and creates opportunities, such as the annual postdoc research symposium, for postdocs and scientists across the Laboratory to interact and share information.





Located near the Great Smoky Mountains, ORNL's campus is just 1 hour away from the national park. The city of Oak Ridge has 150 miles of shoreline for water recreation, rowing, and boating, and nearby Knoxville is home to the thriving research campus of the University of Tennessee and an historic downtown known for its dining, theaters, shopping, and festivals.



* According to data provided by erieri.com on 1/1/2021



World-Leading Equipment and Facilities

Summit

The nation's most powerful supercomputer



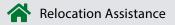


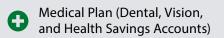
A state-of-the-art advanced manufacturing facility where researchers can 3D-print almost anything

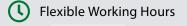
Manufacturing **Demonstration Facility**

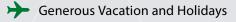
Total Rewards and Amenities

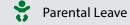
Combined with competitive salaries, ORNL offers postdocs and their families a comprehensive and valuable benefits program. ORNL also has numerous on-site amenities that make life more convenient.

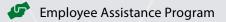


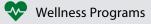


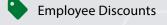




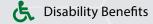


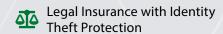










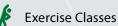


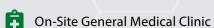


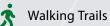








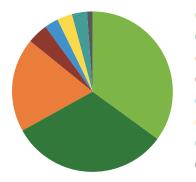




ORNL is a sustaining member of the National Postdoctoral Association (NPA), which entitles our postdocs to individual NPA membership. For more information, visit national postdoc.org.

Success After ORNL*

Postdoctoral researchers from ORNL are highly sought after by government institutions, industry, academia, and nonprofits. Postdocs from ORNL have been hired by:



Industry 35%

University or Research Institution 32%

ORNL 19%

State and Local Government 4%

DOE National Labs 3%

Federal Government 3%

Self-employed 3%

Other 1%

Upon completion of their postdoctoral appointment, over

98%

of ORNL postdocs find paid employment.

80%

earn more than

\$75,000

a year, while only 50% of other postdocs in the United States earn as much.

* based on a survey by Oak Ridge Associated Universities

I enjoy working at ORNL because it is culturally diverse and located in a beautiful and affordable area with lots to do—and because I have the opportunity to learn from and collaborate with leading scientists and visiting researchers from around the world. Nowhere else could I spend my day shooting lasers and x-rays at uranium materials to gain new insights and solve challenging problems related to its fundamental chemistry while being exposed to new science, fresh ideas, and potential connections for my next career step."



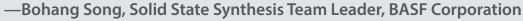
—Tyler Spano, Postdoctoral Researcher



The world of high-performance computing moves incredibly fast, but as a postdoc at the Oak Ridge Leadership Computing Facility, I am at the cutting edge. Not only do I have access to Summit, the fastest supercomputer in the nation, I also work with a team of expert scientists who are already looking forward to research challenges that can only be met with next-generation exascale supercomputers. As an early-career researcher, I cannot think of a better place to learn from industry leaders and to develop my skills as a computational scientist."

—Justin Gage Lietz, Postdoctoral Researcher

My work as a postdoc at SNS allowed me to apply powerful neutron techniques to study battery materials. This invaluable experience enhanced my skill set and really allowed me to find a job in industry, where I could apply my knowledge to solve real-world problems."





Find your **Big Science Opportunity** with a postdoctoral appointment at ORNL!

Apply at www.ornl.gov/postdoc

Questions? Contact recruiting@ornl.gov

2021-G00866/nca July 2021



