



Courtesy of the Oak Ridge National Laboratory, U.S. Department of Energy



Benefits

Oak Ridge National Laboratory and ORAU have long been partners in creating innovative and exciting undergraduate research experiences – and the ORNL Challenge program is no exception.

Participants in the ORNL Challenge program will have the opportunity to conduct research under many of the world's leading scientists in the fields of clean energy, materials sciences, neutron sciences, nuclear sciences, national security, supercomputing, and computation. ORNL staff researchers consistently win federal Department of Energy awards, collaborate on innovative R&D projects with notable multi-national companies, and push the boundaries of scientific discovery. The winning candidates of the Challenge Program will be invited to visit ORNL during the summer term to conduct research with an ORNL mentor on their Solution proposal. Some of the highlights of the program are:



- A 10-week paid internship at ORNL
- Mentoring, networking, and collaboration opportunities with ORNL scientists, staff researchers, and other ORNL interns and Challenge winners
- Professional development activities, including research seminars, workshops and facility tours
- A competitive weekly stipend of \$650
- Furnished housing and utilities for the duration of the program
- Travel assistance to/from site up to \$1500 maximum
- Additional funds for professional development are available with mentor approval (conferences, workshops, training classes, field work, etc.)

Contact

For questions or more info about the ORNL Challenge Program, please contact Dr. Nicie Murphy.

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For general questions about the Science Education Programs at ORNL, please email us at ORNLedu@orau.org or visit www.orau.org/ornl

For assistance with Zintellect, please email Zintellect@orau.org.

www.ORAU.org/ORNChallenge



ORNL

Challenge Program

We welcome you to solve the ORNL Challenge!



U.S. DEPARTMENT OF ENERGY

Office of Science

OAK RIDGE National Laboratory

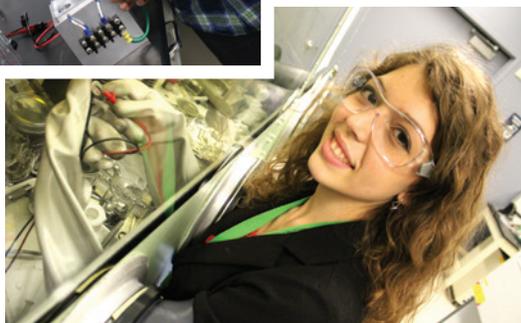
ORAU
Further. Together.

We are seeking innovative scholars to formulate answers to America's toughest scientific challenges!

Oak Ridge National Laboratory wants to pinpoint and capture some of the brightest new minds entering scientific and engineering fields today. The Challenge program utilizes a unique competitive process geared towards students who want to be involved in grand challenge science and make a difference in the world.

The Challenge itself poses a scientific research question developed by ORNL scientists, researchers, and/or university partners that have real-world applicability to America's research mission. Just as established scientists write grant proposals suggesting solutions to scientific problems, interested Junior and Senior undergraduate students will apply to this program by writing a research Solution to the Challenge question. The authors of the top Solutions

will be invited to participate in a summer research internship at ORNL. Challenge winners will then implement their research through a collaborative mentorship with ORNL mentors and university faculty.



Application

Applicants to the ORNL Challenge program must write a Solution proposal that identifies possible Solutions to the Challenge and then submit it through the program's online application system, Zintellect. Winning candidates will need to convincingly demonstrate that their proposed plan will make a contribution to the Solution of the stated research Challenge.

Challenge Solutions MUST be prepared using a Challenge Solution Template. Please visit our website (www.ornl.gov/ORNLChallenge) for information on how to apply.



Eligibility

To apply for the Challenge program, applicants must be:

- a Junior or Senior undergraduate student in good standing at a regionally accredited U.S. college/university (have earned 60 semester credit hours, or equivalent). An official/unofficial academic record is required.
- 18 years of age at the time of appointment and provide proof of coverage under a health insurance plan prior to the beginning of the internship.

There are no citizenship requirements, however non-U.S. citizens must be currently enrolled in a degree-granting U.S. college or university. There is no GPA requirement for application.

The Challenges

If you can generate a Solution to one or more of the Challenges, we invite you to apply to the program and play an integral role in scientific discovery at ORNL.

For an in-depth technical description of each Challenge project, be sure to visit our website at www.ornl.gov/ORNLChallenge.



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