

Opportunity Title: 2021 Virtual Graduate Research Summer Internships

Opportunity Reference Code: ORNL-GSO-2021vGRSI



Organization Oak Ridge National Laboratory (ORNL)

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How to Apply The application will require:

- Profile information
- Educational details (i.e. dates of attendance/graduation, GPAs, majors, etc.)
- Relevant Experience
- Awards and honors
- Statement of Purpose: goals, experience, skills, and personal information
- Availability
- List of potential ORNL research mentors
- Thesis / Dissertation advisor and abstract
- An updated resume or CV, 2 page limit (.pdf upload)
- Academic records - For this opportunity, an unofficial transcript or copy of academic records may be submitted showing name, school name, current/enrolled classes, and GPA (.pdf upload)
- Contact information for recommenders, including current email addresses. Recommendation letters should address the applicant's academic record and potential for success in a STEM internship, as indicated by demonstrated by intellectual merit, research/technical, communication, and teamwork skills. *Applicants must provide one letter from a faculty member and the other from a professional contact of their choice.*

All documents must be submitted via Zintellect. All application components **must** be completed and received in the system in order to be considered.

For questions, contact ORNL-GSO@orise.ornl.gov.

Application Deadline 4/30/2021 11:59:59 PM Eastern Time Zone

Description The Oak Ridge National Laboratory Virtual Graduate Research Summer Internships (vGRSI) program provides research opportunities, chances to connect with ORNL researchers, and associated activities for graduate students. The summer internships are designed to complement academic programs by utilizing the unique resources and mentorship from world-class scientists of Oak Ridge National Laboratory to enhance science, mathematics, engineering, and technology education; encourage careers in science and technology; and improve scientific literacy.

Program Goals

The program's goals are to:

- Engage students through meaningful mentorship and enrichment activities
- Maximize the abilities of students through cooperative research with ORNL researchers
- Provide a learning environment for students to develop the skills they need to become the next generation of researchers
- Advance the participant's scientific skills and knowledge in areas of critical national need
- Promote the influx of new ideas and skills into the laboratory
- Enhance interactions with the wider academic and research communities

The emphasis on a research mentoring approach allows vGRSI appointees to become integral members of ORNL research and development teams. The appointees gain exposure to current national issues in science and technology, have opportunities to share and exchange innovative ideas and techniques, and make significant contributions to ORNL programs. Depending on the nature of the research and availability of funding, participants are encouraged to publish and present research findings and write funding proposals as

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part of a research team to enhance their own professional development. The interaction of ideas, skills, approaches, and technologies will be of mutual benefit to the fellow and ORNL.

The vGRSI program is managed by Oak Ridge National Laboratory and administered by the STEM Workforce Development Unit of the Oak Ridge Institute for Science and Education (ORISE), which is managed by Oak Ridge Associated Universities (ORAU) for the U.S. Department of Energy.

Program Topics

Researchers from any of Oak Ridge National Laboratory's mission areas may review vGRSI applications and issue an appointment offer. ORNL boasts state-of-the-art capabilities across a wide range of scientific and engineering disciplines, including **materials science and engineering, computer and computational science, neutron scattering, neutron science and technology, biological and environmental research, national securities, nuclear physics and engineering, fusion and fission science and technology, and energy efficiency and renewable energy (building technologies, advanced manufacturing, transportation technologies)**.

Oak Ridge is also the place to be for scientists and engineers who want to be leaders in their disciplines while addressing challenging problems in a multidisciplinary environment. Our researchers work in laboratories with world-class, often unique, facilities including the **Spallation Neutron Source, High Flux Isotope Reactor, Center for Nanophase Materials Sciences, Oak Ridge Leadership Computing Facility, National Transportation Research Center, Manufacturing Demonstration Facility, Buildings Technologies Research and Innovation Center, Center for Advanced Simulation of Light Water Reactors**, and many more. Many research groups are cross-disciplinary and projects may be supported by multiple Divisions and Directorates.

Before you get started on your applications, you should:

Review the research areas at ORNL to determine what best fits your career goals & identify your areas of interest & key terminology that can be used as you answer application questions or update your resume. You can see the eight key areas at www.ornl.gov.

- Explore breakthrough areas, news, current research highlights, related links, and more.
- Use the search box to identify key researchers at ORNL in specific areas
- Explore the directorates and divisions.

Program Details

- Ten week research experience
- Full-time participation (40 hours/week)
- Appointments will start on **Monday, June 7th, 2021** and end on **Friday, August 13th, 2021**. Dates for individual appointments may be flexible to account for academic calendars and trimester schedules.

Qualifications Eligibility Requirements

To be considered for this opportunity, applicants must:

1. Be currently enrolled in a Master's or Doctoral degree-seeking program at a regionally accredited U.S. college or university
 - Applicant must be currently taking graduate-level classes or have completed the first term in a graduate program
2. Have a cumulative GPA of at least 3.0 on a 4.0 scale
3. Be 18 years of age

Contingencies

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All awards and active participation in the program are contingent upon security access approval to Oak Ridge National Laboratory, agreement with the Terms of Appointment, and completion of all contingencies in the offer letter. All contingencies of an appointment offer must be met before the applicant can begin an appointment.

- Students who are not U.S. citizens are subject to DOE clearance approval for laboratory access.
- vGRSI participants are required to have coverage under a health insurance plan and must provide proof of such coverage. It is your responsibility to secure insurance coverage before arriving at the appointment site.

Citizenship

The vGRSI program does not have citizenship requirements, although specific research projects may have additional restrictions. If a selected applicant is not a U.S. citizen, they must obtain and show proof of a valid visa status allowing us to pay them a stipend. Once an offer has been made, the ORISE Immigration Office may guide the process of obtaining appropriate immigration documents. Participants who are foreign nationals must also receive approval and clearance from the U.S. Department of Energy; this process is initiated by ORNL after an application has been selected.

During the Appointment

Appointments require a commitment to the research program at ORNL. The participant's research must be conducted in a manner and according to a time schedule that meets the overall research needs of ORNL.

Deliverables

All vGRSI participants are required to submit a report and present a poster at the end of the program.












Stipend

Participants receive a monthly stipend based on their educational level. Stipend payments are taxable as an educational benefit. There will be a delay before you receive your first stipend payment. **You should be prepared to cover all personal expenses for the first 30 days of your appointment.**

- **Dislocation allowance:** \$1,500 one-time payment for a 10 week appointment, deposited near the beginning of the appointment. Housing allowances are paid to offset the costs associated with housing and other living expenses.
- **Current Master's student* stipend:** \$3,450 stipend per month
- **Current Doctoral student* stipend:** \$3,725 stipend per month

* Denotes class status completed prior to start date with ORNL and as defined by college/university.

Eligibility Requirements

- **Degree:** Currently pursuing a Master's Degree or Doctoral Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
 - **Communications and Graphics Design** (2 )
 - **Computer, Information, and Data Sciences** (17 )
 - **Earth and Geosciences** (20 )
 - **Engineering** (27 )
 - **Environmental and Marine Sciences** (15 )
 - **Life Health and Medical Sciences** (47 )
 - **Mathematics and Statistics** (11 )
 - **Nanotechnology** (1 )
 - **Other Physical Sciences** (12 )
 - **Physics** (16 )
 - **Social and Behavioral Sciences** (28 )

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- **Age:** Must be 18 years of age

Affirmation I certify that:

- I have completed coursework towards a graduate degree at an accredited U.S. college or university.
- To the best of my knowledge all information contained in this application is accurate.
- I understand that any falsification will render me ineligible for participation and, if found after participation has begun, may require me to reimburse any funds received.