

**Opportunity Title:** NPS: Microgrid Design Research for Undergraduates - Internship

**Opportunity Reference Code:** NPS-2025-0002

**Organization** U.S. Department of Defense (DOD)

**Reference Code** NPS-2025-0002

**How to Apply** Click on *Apply* at the bottom of the opportunity to start your application.

**Application Deadline** 6/30/2025 3:00:00 PM Eastern Time Zone

**Description** The Naval Postgraduate School is offering an undergraduate internship.

#### What will I be doing and why should I apply?

As an Oak Ridge Institute for Science and Education (ORISE) participant, you will join a community of scientists and researchers in an effort to support microgrid design projects at the Naval Postgraduate School. Under the guidance of a mentor, you will have the opportunity to expand your knowledge by collaborating on the following activities:

- Applying existing software tools to model, analyze, and design microgrids for designated applications.
- Collecting and analyzing load data required for the analysis.
- Supporting validation of the software tool through laboratory experimentation.
- Documenting results in a presentation and written report.

#### Where will I be located?

Location varies.

#### What is the anticipated start date?

05/05/2025

NPS is ready to make appointments immediately. Exact start dates will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis and internships will be filled as qualified candidates are identified.

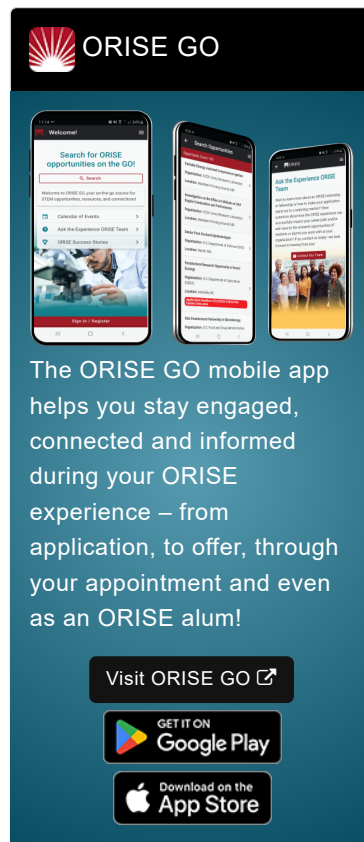
#### What is the appointment length?

An ORISE appointment period can be a short-term (less than 2 weeks), summer (10-12 weeks), or yearlong appointment. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

#### What are the provisions?

You will receive a stipend to be determined by NPS. Stipends are typically based on a participant's academic standing, discipline, experience, and research facility location. Other provisions may include the following:

- Health Insurance Supplement (*Participants are eligible to purchase health insurance through ORISE*)
- Relocation Allowance



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- Training and Travel Allowance

### About NPS

The mission of the Naval Postgraduate School provides relevant and advanced educational and research experience to commissioned officers of the Naval Service to increase their combat effectiveness and enhance the security of the United States. In support of this mission as well as to sustain academic excellence, NPS and the U.S. Department of the Navy (DoN) foster and encourage an academic program of relevant and meritorious naval research. NPS research supports the needs of the Navy and the U.S. Department of Defense while also building the intellectual capital of Naval Postgraduate School.

### About ORISE

This program, administered by Oak Ridge Associated Universities (ORAU) through its contract with the U.S. Department of Energy (DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and DoD. Participants do not enter into an employee/employer relationship with ORISE, ORAU, DoD or any other office or agency. Instead, you will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE. For more information, visit the [ORISE Research Participation Program at the U.S. Department of Defense](#).

**Qualifications** The qualified candidate will be a U.S. citizen who is currently pursuing a Bachelor's Degree anticipated to be received by 6/30/2028.

The preferred applicant will have:

- Programming education and/or experience in a language such as Python or Matlab.
- Taken a course in statistics.

### Application Requirements

A complete application consists of:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - Please upload a copy of a transcript for your current or most recent degree program that meets the disciplinary qualifications of the opportunity. [Click here for detailed information about acceptable transcripts](#).
- 1 Recommendation. We encourage you to contact your recommender as soon as you start your application to ensure they are

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able to complete the recommendation form and to let them know to expect a message from Zintellect. Recommenders will be asked to rate your scientific capabilities, personal characteristics, and describe how they know you. You can always log back in to your Zintellect account and check the status of your application.

If you have questions, send an email to [navy@orise.orau.gov](mailto:navy@orise.orau.gov). Please list the reference code of this opportunity [NPS-2025-0002] in the subject line of the email. Please understand that ORISE does not review applications or select applicants; selections are made by the sponsoring agency identified on this opportunity. All application materials should be submitted via the "Apply" button at the bottom of this opportunity listing. Please do not send application materials to the email address above.

**Connect with ORISE...on the GO!** Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

**Point of Contact** [Richard](#)

**Eligibility** • **Citizenship:** U.S. Citizen Only

- Requirements**
- **Degree:** Currently pursuing a Bachelor's Degree to be received by 6/30/2028 12:00:00 AM.
  - **Discipline(s):**
    - **Engineering** ([27](#) 👁)
    - **Physics** ([16](#) 👁)
  - **Age:** Must be 18 years of age