

Opportunity Title: Applied Science Research - Undergraduate

Opportunity Reference Code: NAMRU-Dayton-2022-0004

Organization

U.S. Department of Defense (DOD)

Reference Code

NAMRU-Dayton-2022-0004

How to Apply

Click on *APPLY* now to start your application.

Description

Naval Medical Research Unit Dayton conducts research on environmental health effects and aerospace medicine, addressing health and performance challenges faced by service members in operational military environments.

What will I be doing?

As a STEM undergraduate student, you will gain hands-on experience in human performance research associated with physiologic episodes as experienced by Naval tactical aviators. The intended research support includes projects associated with physiological monitoring device test and evaluation, cerebral and cognitive effects of varying breathing gas concentrations and dynamics, as well as the development of research devices, human computer interface systems, and questionnaires/cognitive tasks to support multifaceted projects. As a STEM undergraduate student, you will gain significant insight into research lab operations and data collection, applied psychology, engineering, and physiology based tasks for evaluation of warfighter performance, and clinical research applications and system troubleshooting. Additionally, you will learn about multidisciplinary applied research and gain an understanding of the operational needs of the joint fleet, while supporting research in areas that are practicable and pertinent to the United States Navy.

Why should I apply?

This internship provides the opportunity to independently utilize your skills and engage with experts in innovative ideas to move the proposed research forward. There are multiple opportunities available to engage in your applied research and evaluation interests.

Where will I be located? Dayton, Ohio and able to research online/independently/remotely as needed during COVID restriction period.

What is the anticipated start date?

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

What is the appointment length?

This ORISE appointment is for a full-time three to four month period. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

What are the benefits?

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

- Health Insurance Supplement. *Participants are eligible to purchase health insurance through ORISE.*
- Relocation Allowance
- Training and Travel Allowance

Nature of Appointment

You will 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.

Qualifications

Undergraduate student in a STEM program; desire and ability to collaborate in various environments (hands-on, laboratory, computer based).

Favorable skills:

- MRI/medical imaging interest
- Device development and engineering interest
- Cognitive performance and evaluation interest
- Applied research and testing interest
- Familiarity with Microsoft Office
- Ability to research in the laboratory majority of the time, but able to work on line/independently/remotely as needed during COVID restriction period.

A complete application consists of:

- Zintellect profile
- Essay Questions - The application includes questions specific to the opportunity.
- Academic Records - For this opportunity, an official transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted.
- Current Resume/CV
- One (1) Recommendation - Applicants are required to provide contact information for at least one recommendation. You are encouraged to request a recommendation from a professional who can speak to your abilities and potential for success as well as your scientific capabilities and personal characteristics. Recommendation requests must be sent through the Zintellect application system. Recommenders will be asked to complete a recommendation in Zintellect. Letters of recommendation submitted via email will not be accepted.

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system. All documents must be in English or include an official English translation. If you have questions, send an email to navy@orise.orau.gov. Please list the reference code of this opportunity NAMRU-Dayton-2022-0004 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!

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Currently pursuing a High School Diploma/GED, Associate's Degree, or Bachelor's Degree to be received by 5/31/2026 11:59:00 PM.
- **Discipline(s):**
 - **Communications and Graphics Design** ([6](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Earth and Geosciences** ([21](#))
 - **Engineering** ([27](#))
 - **Environmental and Marine Sciences** ([14](#))
 - **Life Health and Medical Sciences** ([46](#))
 - **Mathematics and Statistics** ([10](#))
 - **Other Physical Sciences** ([12](#))
 - **Other S&E-Related** ([1](#))
 - **Physics** ([16](#))
 - **Social and Behavioral Sciences** ([29](#))
- **Age:** Must be 18 years of age



The ORISE GO mobile app helps you stay engaged, connected and informed during your ORISE experience – from application, to offer, through your appointment and even as an ORISE alum!

[Visit ORISE GO](#) [ORISE GO Google Play App](#) [ORISE GO iOS App](#)