Opportunity Title: Applied Science Research - Undergraduate
Opportunity Reference Code: NAMRU-Dayton-2024-0001

Organization	U.S. Department of Defense (DOD)
Reference Code	NAMRU-Dayton-2024-0001
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.

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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?

Wright Patterson Air Force Base, Dayton, OH

What is the anticipated start date?

NAMRU-D is ready to make an appointment immediately. Exact start date will be determined at the time of selection and in coordination with the selected candidate.
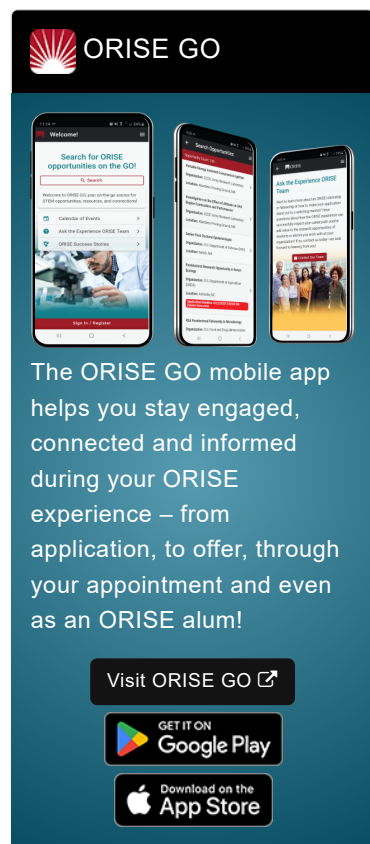
What is the length of the appointment?

This ORISE appointment is a full-time, twelve-month internship. 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

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   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 online/independently/remotely as needed during COVID restriction period.

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 - 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. Click here for detailed information about acceptable transcripts.
- One recommendation. Your application will be considered incomplete and will not be reviewed until one recommendation is submitted. We encourage you to contact your recommender(s) as soon as you start your application to ensure they are 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.

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-2024-0001) 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.

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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):**
	○ **Chemistry and Materials Sciences** (12 👁)
	○ **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 👁)
	○ **Physics** (16 👁)
	○ **Science & Engineering-related** (1 👁)
	○ **Social and Behavioral Sciences** (29 👁)
	• **Age:** Must be 18 years of age