

Opportunity Title: Neuroscience & Human Performance Research -
Postgraduate

Opportunity Reference Code: NAMRU-Dayton-2022-0006



Organization U.S. Department of Defense (DOD)

Reference Code NAMRU-Dayton-2022-0006

How to Apply Click on *Apply* now to start your application.

Description Naval Medical Research Unit Dayton (NAMRU-D) 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?

Under the guidance of a mentor, your research will involve projects that investigate human performance under a number of stressors that are common in aerospace environments. These stressors may include hypoxia, breathing resistance, motion sickness, spatial disorientation, or others. The projects will investigate cognitive and neural measures of human performance using a number of techniques including, cognitive testing, psychophysics, electroencephalography (EEG), and functional imaging techniques. You will participate in nearly all aspects of human subjects research to include: experimental design, study recruitment, data collection with human participants, data analysis, and dissemination of research findings. You will learn how to prepare and operate a number of cognitive neuroscience devices for data collection including EEG and fNIRS.

The project will include daily set-up of equipment, maintenance of participant folders, interaction with research participants, executing data collection, organizing and analyzing data, report development, and other associated literature reviews. Supplementary experience will be associated with protocol, standard operating procedure, and proposal development, as well as interaction with Institutional Review Board requirements and procedures.

Finally, 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. You may also have the opportunity to collaborate with various subject matter experts, and/or attend conferences/scientific meetings.

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 full-time twelve month duration. 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

Opportunity Title: Neuroscience & Human Performance Research -

Postgraduate

Opportunity Reference Code: NAMRU-Dayton-2022-0006

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

- Bachelor's Degree in psychology, neuroscience, or a related field
- At least one year of previous research experience (time spent working in a lab during undergraduate studies included)
- Knowledge of basic research concepts, such as experimental design, human subjects protection, and data organization
- Good critical thinking skills and openness to learning new skills
- Team player

Favorable skills:



- Certificate in CITI training
- Experience with human participant testing
- Experience with EEG
- Ability to learn quickly and work independently when appropriate

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 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.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
 - **Life Health and Medical Sciences** (2 )
 - **Social and Behavioral Sciences** (4 )
- **Age:** Must be 18 years of age