

Opportunity Title: Physiology: Vestibular Science Research - Doctoral

Opportunity Reference Code: NAMRU-Dayton-2022-0012

Organization U.S. Department of Defense (DOD)

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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?

Under the guidance of a mentor, you will engage with the NAMRL vestibular physiology research team in research that includes vestibular and balance function, effects of virtual reality in motion environments, and effects of motion on sleep. This opportunity will enable you to gain significant insight into military research priorities relative to vestibular physiology and function and the use of specialized vestibular physiology research devices, including 6 degree of freedom motion bases, force plates, and virtual reality devices. You will enhance your skills using MATLAB to apply dynamic system modeling to balance, and the chance to gain experience performing human subject research experiments involving military relevant applications. In collaboration with the senior vestibular scientist, you will participate in drafting proposals for research funding with an emphasis on applied and/or clinical applications. Additionally, you will learn about multidisciplinary, multi-university programs for vestibular/balance research and gain understanding related to the operational needs of the joint fleet, all 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.

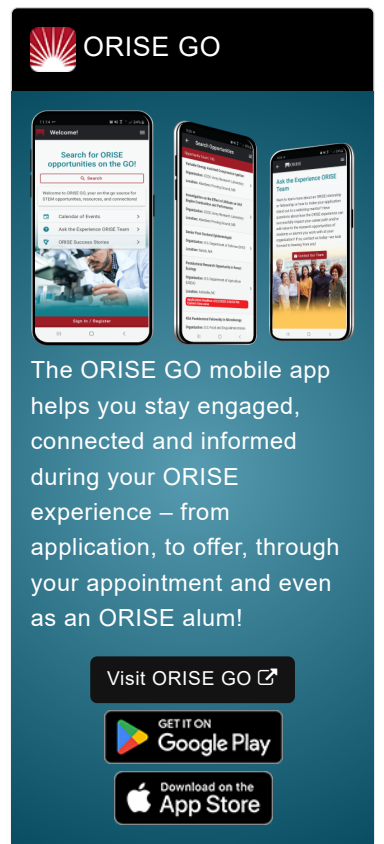
What is the length of the appointment?

This ORISE appointment is part-time for a twelve 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*



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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 MD or PhD in a relevant field of study such as, biomedical engineering, mechanical engineering, kinesiology, physiology, exercise science, movement sciences, biomechanics, human factors psychology, ergonomics, neuroscience, neurology, otolaryngology, speech & hearing sciences, or rehabilitation sciences. You must be sociable and comfortable interacting with human subjects during data collection while also paying high attention to detail. Experience with motion devices and force plates and at least five years of exposure in either a vestibular research lab setting or in a vestibular clinic is essential.

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.

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Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree.
- **Discipline(s):**

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- **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** ([48](#) )
- **Mathematics and Statistics** ([11](#) )
- **Physics** ([16](#) )
- **Social and Behavioral Sciences** ([29](#) )
- **Age:** Must be 18 years of age