

Opportunity Title: Post-Doctoral Research - Health Study on Sleep

Opportunity Reference Code: NAMRU-Dayton-2020-0015C

Organization U.S. Department of Defense (DOD)

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How to Apply Components of the online application are as follows:

- Profile Information
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - For this opportunity, an unofficial 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.](#)
- Three Recommendations

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.

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.

All documents must be in English or include an official English translation.

Letter of Recommendation: While a letter of recommendation is not required to be considered, applicants are required to provide contact information for one recommendation in order to submit the application. Applicants are encouraged to request a letter of recommendation before submission as this may help reviewers have a better understanding of the applicant's qualifications and interests. If selected, a letter recommendation must be submitted on your behalf upon acceptance of the appointment.

Description The Naval Medical Research Unit Dayton (NAMRU-D) supports the warfighter through premier aerospace medicine and environmental health research. NAMRU-D performs research on the effects of unique military settings and operational environments.

Under the guidance of a mentor, the selected candidate will engage in a research project that investigates the effects of motion on sleep in a multi-phase study. The general objectives of the project are (i) to develop a new "Sleep Disruption Motion Bed" (SDMB) for studying the impacts of motion on sleep, (ii) to begin to quantify thresholds for motion stimuli that disrupt sleep, and (iii) to begin to develop those mitigation strategies that could help minimize the impacts of vehicular motion (e.g., turbulence during air transport) on sleep. The study will involve testing human subjects to address these objectives and provides a hands-on, educational experience with various



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physiological/behavioral measurement technologies, including but not limited to the following areas: sleep, subjective perceptual responses, electromyography, and electroencephalography. In addition, the participant will analyze data, contribute to manuscript and grant preparation, present findings at scientific conferences, and learn about DoD collaborations with Air Force, Army, and University colleagues.

Appointment Length

This appointment is a full-time, twelve month research appointment, with the possibility to be renewed for additional research periods. Appointments may be extended depending on funding availability, project assignment, program rules, and availability of the participant.

Participant Benefits

Participants 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

The participant will not enter into an employee/employer relationship with ORISE, ORAU, DOD, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.

Qualifications The applicant should hold a Ph.D. or equivalent in a relevant research area such as bioengineering, biology, neuroscience, psychology, or physiology and have a track record in behavioral research with the potential for scientific success. Knowledge in the field of sleep research is desired. The applicant should have a keen interest in sleep disruption and sleep deprivation research, human behavior/performance during motion, excellent writing and oral communication skills, and experience in data analysis. Occasional research outside the traditional hours will be required during data collection periods (evenings and nights).

- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
 - **Degree:** Doctoral Degree received within the last 60 months or currently pursuing.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([2](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([27](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([45](#) )
 - **Other Non-Science & Engineering** ([2](#) )
 - **Physics** ([16](#) )
 - **Social and Behavioral Sciences** ([20](#) )