

Opportunity Title: Sensory Systems Exploration Research Opportunity

Opportunity Reference Code: AFRL711HPW-2019-0025

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.
- 1 Recommendation Required

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 airforce@orise.ora.gov. Please list the reference code of this opportunity in the subject line of the email.

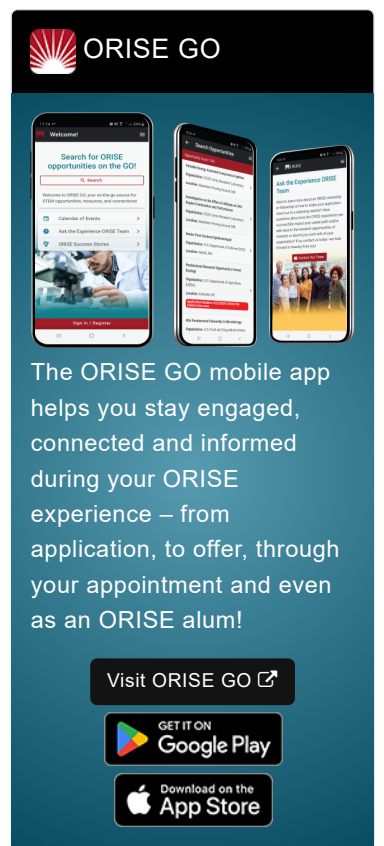
All documents must be in English or include an official English translation.

Description The Air Force Research Laboratory (AFRL) 711th Human Performance Wing (711 HPW) is a unique combination of three units: the Airman Systems Directorate (RH), the US Air Force School of Aerospace Medicine (USAFSAM) and the Human Systems Integration Directorate (HP). The synergies of combining the ideas, resources and technologies of these units position the 711 HPW as a world leader in the study and advancement of human performance. For more information about the 711th HPW, please visit: <https://www.wpafb.af.mil/afrl/711hpw/>. This project is specifically located in the Warfighter Interface Division (RHCS), which is leading the discovery, evaluation, and transition of revolutionary auditory and communication technologies that optimize warfighters' tactical and strategic decision making, survivability, and lethality across the full range of battlespace environments.

The Sensory Systems Branch at AFRL studies the performance of human sensory systems working alone or together in highly complex environments which may include hazardous noise and visually overloaded displays. This branch conducts studies on human subjects to determine ways to improve performance while still protecting the warfighter. One upcoming study is focused on individual performance and whether basic performance resources can be measured and then used to align airmen to specific career fields that best match their skill set. The ORISE participant will gain an understanding of what auditory skills are required in career fields across the Air Force and how those skills correlate with laboratory performance measurements, e.g., a link between the lab and the real world. Under the guidance of a mentor, the ORISE participant will gain experience designing a research study in the areas of bioacoustics and psychoacoustics and will increase their organizational skill set by recruiting, scheduling, and collecting data from a large number of human subjects. The research participant will learn to conduct research studies with human subjects following established protocols; perform routine lab and equipment set-up and maintenance; and compile, process, and analyze data sets.


Appointment Length


This appointment is a twelve month research appointment, with the possibility to be renewed for




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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 USAFRL. 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 Candidates should be currently pursuing or have received a bachelor's degree in psychology, biology, engineering, or other related field of science.

Broad knowledge involving human research techniques, statistics, and coding is desired.

- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
 - **Degree:** Bachelor's Degree received within the last 60 months or currently pursuing.
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([2](#) )
 - **Computer, Information, and Data Sciences** ([16](#) )
 - **Earth and Geosciences** ([21](#) )
 - **Engineering** ([27](#) )
 - **Environmental and Marine Sciences** ([14](#) )
 - **Life Health and Medical Sciences** ([45](#) )
 - **Mathematics and Statistics** ([10](#) )
 - **Other Non-Science & Engineering** ([2](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([1](#) )
 - **Social and Behavioral Sciences** ([27](#) )