

Opportunity Title: Cognitive Neuroscience Internship - BMI/Neuromodulation
Research at AFRL
Opportunity Reference Code: AFRL-711HPW-2021-0003R

Organization U.S. Department of Defense (DOD)

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How to Apply Click on *Apply* at the bottom of the opportunity to start your application.

Description The U.S. Air Force Research Laboratory (AFRL) is offering a bachelor level internship at the Wright-Patterson Air Force Base.

What will I be doing?

As an ORISE participant, you will join a community of scientists and researchers in an effort to apply your knowledge in cognitive neuroscience.

The AFRL Neuromodulation team is looking for an intern to participate in the preparation and completion of research studies including the opportunity to gain experience in report writing as needed. You will receive mentorship on aspects related to neuromodulation/brain stimulation research and brain machine interfaces. A large portion of this will include the development of software for real-time data processing, graphic user interface (GUI) development, and analysis and setup related to neuromodulation and Electroencephalography (EEG).

Why should I apply?

Under the guidance of a mentor, you will gain hands-on experience to complement your education and support your academic and professional goals. Along the way, you will engage in activities and research in several areas. These include, but are not limited to,

- Collecting data from human and potentially animal subjects (*will require CITI training)
- Assisting research subjects with record keeping, laboratory maintenance and experiment preparation
- Becoming familiar with cognitive testing used in this program
- Preparing subjects for physical testing, including application of sensors
- Coordinating with investigators
- Preparing reports and presentations.

Where will I be located?

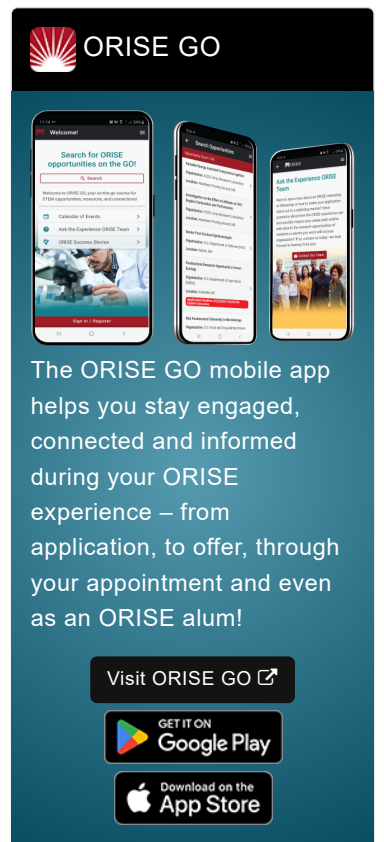
Dayton, Ohio

What is the anticipated start date?

AFRL is ready to make appointments immediately. Exact start dates will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis and internships will be filled as qualified candidates are identified.


What is the appointment length?


This appointment is a nine month research appointment, with the possibility to be renewed for additional research periods. Appointments may be extended depending on funding availability, project assignment, program




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rules, and availability of the participant. The participation rate will be part-time (20 hours/week).

What are the benefits?

You will receive a stipend to be determined by AFRL. Stipends are typically based on a 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 AFRL

The 711th Human Performance Wing (711 HPW), headquartered at Wright-Patterson Air Force Base in Ohio, is the first human-centric warfare wing to consolidate human performance research, education, and consultation under a single organization. Established under the Air Force Research Laboratory (AFRL), the 711 HPW is comprised of the Airman Systems Directorate (RH) and the United States Air Force School of Aerospace Medicine (USAFSAM). For more information about the Air Force Research Laboratory, 711 Human Performance Wing, Airman Systems Directorate, Airman Biosciences Division, please visit <https://afresearchlab.com/>.

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 The qualified candidate should currently be pursuing a bachelor's degree with a major in engineering, computer science, mathematics, psychology or related discipline.

Highly competitive applicants will have education and/or experience in one or more of the following:

- Experience with MATLAB, data, and signals processing.
- Willingness and ability to assist with Magnetic Resonance Imaging research at Dayton Children's Hospital in the evenings on occasion.

The eligible candidate must meet the requirement to gain access to Wright-Patterson AFB, OH. A security clearance is NOT required.

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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 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.](#)
- One Recommendation

If you have questions, send an email to AIRFORCE@orise.orau.gov. Please list the reference code of this opportunity [AFRL-711HPW-2021-0024] 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 Bachelor's Degree.
- **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **Communications and Graphics Design** ([2](#) )
 - **Computer, Information, and Data Sciences** ([17](#) )
 - **Engineering** ([27](#) )
 - **Life Health and Medical Sciences** ([46](#) )
 - **Mathematics and Statistics** ([10](#) )
 - **Science & Engineering-related** ([1](#) )
 - **Social and Behavioral Sciences** ([28](#) )
- **Age:** Must be 18 years of age