

**Opportunity Title:** Clinical Validation Research Fellowship w/ AFRL Enroute Care

**Opportunity Reference Code:** AFRL-711HPW-2023-0019

**Organization** U.S. Department of Defense (DOD)

**Reference Code** AFRL-711HPW-2023-0019

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

**Description** The Air and Space Biosciences Division within the 711th Human Performance Wing at the Air Force Research Laboratory (AFRL) is offering a post-Master's research opportunity. The Division's mission is to discover, demonstrate, and transition knowledge products and technology solutions from the full spectrum of bioscience, biotechnology and aerospace medicine, to enable, enhance, sustain, and restore the health and performance of the multi-domain Airman.

**What will I be doing?**

As an Oak Ridge Institute for Science and Education (ORISE) participant, you will join the scientists and researchers in the Air and Space Biosciences Division to create a software tool for automating the clinical validation process used for transporting patients via aeromedical evacuation. The goal of this project is to develop a prototype system for use by the validating flight surgeon to help them determine whether a patient is clinically ready for aeromedical evacuation. The vision for this tool is that it will incorporate capabilities for automatically aggregating available patient information, perform necessary calculations based on physiological and clinical factors, and provide recommendations to the validating flight surgeon that are transparent and queryable, using an open-source large language model chatbot.

**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:

- Research planning and development
- Programming
- Medical software development
- Human factors design
- Quality assurance testing
- Technical presentation and report writing

**Where will I be located?** Dayton, Ohio

**What is the anticipated start date?**

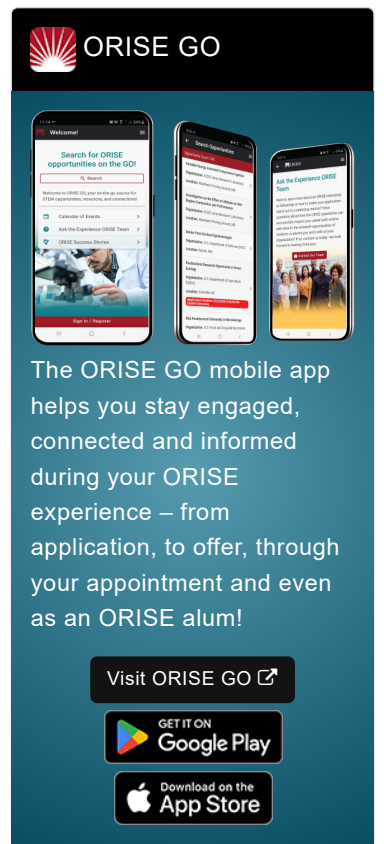
Exact start dates will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis and fellowships will be filled as qualified candidates are identified.

**What is the appointment length?**

Appointments are initially for one year with the option to extend the appointment for up to four additional years, contingent upon project needs and funding availability.

**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:



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- Health Insurance Supplement (*Participants are eligible to purchase health insurance through ORISE*)
- Relocation Allowance
- Training and Travel Allowance

#### **About AFRL**

the Air and Space Biosciences Divisions Research Team within the 711th Human Performance Wing at AFRL's mission is to discover, demonstrate, and transition knowledge products and technology solutions from the full spectrum of bioscience, biotechnology and aerospace medicine, to enable, enhance, sustain, and restore the health and performance of the multi-domain Airman. 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 will have received their Master's degree in a related engineering, medical science, or psychology field. The degree must have been received within five years of the appointment start date.

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

- End-user interviews
- Data processing and visualization (data cleaning, technical documentation, and graphical visualization)
- Software usability and human factor design testing

#### **Application Requirements**

A complete application consists of:

- Zintellect Profile
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)

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- Resume (PDF)
- Transcripts/Academic Records - Please upload a copy of a transcript for your current or most recent degree program that meets the disciplinary qualifications of the opportunity. [Click here for detailed information about acceptable transcripts.](#)
- One recommendation. Your application will be considered incomplete and will not be reviewed until one recommendation is submitted. We encourage you to contact your recommender(s) as soon as you start your application to ensure they are able to complete the recommendation form and to let them know to expect a message from Zintellect. Recommenders will be asked to rate your scientific capabilities, personal characteristics, and describe how they know you. You can always log back in to your Zintellect account and check the status of your application.

If you have questions, send an email to [AIRFORCE@orise.orau.gov](mailto:AIRFORCE@orise.orau.gov). Please list the reference code of this opportunity [**AFRL-711HPW-2023-0019**] 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:** Master's Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Engineering** ([6](#) )
  - **Life Health and Medical Sciences** ([3](#) )
  - **Social and Behavioral Sciences** ([3](#) )