

**Opportunity Title:** Bioeffects Advanced Imaging Summer Research Fellowship

**Opportunity Reference Code:** AFRL-711HPW-2024-0010

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

**Reference Code** AFRL-711HPW-2024-0010

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

**Description** The Air Force Research Laboratory (AFRL) at Fort Sam Houston in San Antonio, Texas is offering a bioeffects advanced imaging doctoral summer fellowship.

#### What will I be doing?

As an Oak Ridge Institute for Science and Education (ORISE) participant, you will join a community of scientists and researchers in an effort to learn about advanced imaging modalities and how these tools can be used to study directed energy bioeffects. Research projects will focus on using tools to understand the mechanisms of interaction between a directed energy (laser or high peak power microwave) source and a biological target.

#### Why should I apply?

Under the guidance of a mentor, you will gain hands-on experience to 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,

- Using high speed cameras
- Utilizing multiphoton confocal microscopes
- Using quantitative phase microscopy
- Documenting findings and periodically presenting the research to other DoD Scientists and Engineers

#### Where will I be located?

San Antonio, Texas

#### What is the anticipated start date?

This appointment is a 12-week 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.

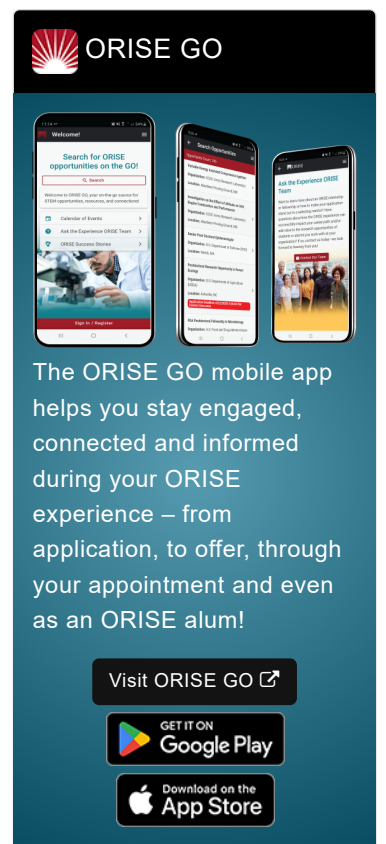
#### What are the benefits?

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 Human Effectiveness Directorate (RH) and



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the United States Air Force School of Aerospace Medicine (USAFSAM). For more information about the Air Force Research Laboratory, 711 Human Performance Wing, Human Effectiveness 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 be currently pursuing a doctoral degree in one of the following: Bioengineering and Biomedical Engineering, Chemical Engineering, Computer and Systems Engineering, Electrical and Electronic Engineering, Materials Science Engineering, Mechanical Engineering, Optics, or Cellular and Molecular Biology.

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

- Experience in biomedical optics
- Experience with cell culture or high-speed imaging
- Interest in laser-tissue interaction, high resolution microscopy and imaging living systems

#### **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 - 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. We encourage you to contact your recommender 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-2024-0010 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 Doctoral Degree.
  - **Discipline(s):**
    - **Engineering** ([6](#) 👁)
    - **Life Health and Medical Sciences** ([1](#) 👁)
    - **Physics** ([1](#) 👁)
  - **Age:** Must be 18 years of age