

Opportunity Title: Technical Intelligence / Remote Sensing Summer Internship
at AFIT

Opportunity Reference Code: AFIT-2022-0002



Organization U.S. Department of Defense (DOD)

Reference Code AFIT-2022-0002

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

Application Deadline 3/11/2022 3:00:00 PM Eastern Time Zone

Description The Air Force Institute of Technology is offering an undergraduate or Post-Bachelor's internship at 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 conduct research related to technical intelligence (TI) and Intelligence, Surveillance, and Reconnaissance (ISR). You will be matched to specific projects based on your qualifications and career interests.

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 one of several technical areas. These include, but are not limited to:

- Radiometric modeling and simulation (M&S) of scenes
- Target signatures
- Optical sensors
- Algorithm development for exploitation of remotely sensed data
- Implementation of machine learning (ML) techniques to remote sensing applications
- Laboratory and field experimentation using state-of-the-art hyperspectral and multi-spectral imaging cameras

Where will I be located?

Dayton, Ohio

What is the anticipated start date?

The desired start date is May 15, 2022, but the exact start date will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis and internships or fellowships will be filled as qualified candidates are identified.

What is the appointment length

This appointment is a 12 week summer 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 AFIT. 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 AFIT

The [Air Force Institute of Technology](#), or [AFIT](#), located at Wright-Patterson Air Force Base, Ohio, is the Air Force's graduate school of engineering and management as well as its institution for technical professional continuing education. A component of Air University and Air Education and Training Command, AFIT is committed to providing defense-focused graduate and professional continuing education and research

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to sustain the technological supremacy of America's air, space and cyber forces.

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 Bachelor's degree or has received a bachelor's degree within the past 5 years.

Highly competitive applicants will have:

- A solid academic background in a research area that aligns with at least one of those described in the project description
- A strong interest in furthering their STEM education at the graduate level

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.](#)
- 1 Recommendation

If you have questions, send an email to AIRFORCE@orise.orau.gov. Please list the reference code of this opportunity, AFIT-2022-0002, 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.

Connect with ORISE...on the GO! Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree received within the last 60 months or anticipated to be received by 5/31/2023 12:00:00 AM.
- **Discipline(s):**
 - **Computer, Information, and Data Sciences** (5 )
 - **Engineering** (4 )
 - **Physics** (16 )