Opportunity Title: Quantum Optics Research at the Air Force Institute of Technology (AFIT)
Opportunity Reference Code: AFIT-2025-0015

Organization U.S. Department of Defense (DOD)

Reference Code AFIT-2025-0015

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

Description The Air Force Institute of Technology (AFIT) is offering post-Master's fellowships at Wright Patterson Air Force Base, Ohio.

What will I be doing?

As an ORISE participant, you will join a community of scientists and researchers engaged in research topics related to quantum optics. As the selected candidate and under the guidance of a mentor, you will gain experience and advance your learning in activities such as:

- Collecting experimental data
- Analyzing results and simulating environments of interest
- Quantum Information and Sensing

Where will I be located? Dayton, Ohio

What is the anticipated start date?

AFIT is seeking to begin these appointments in August or September 2025. 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?

The duration of these appointments will be 8-12 weeks, with the possibility to be extended for additional periods depending on funding availability, project assignment, program rules, and availability of the participant.

What are the provisions?

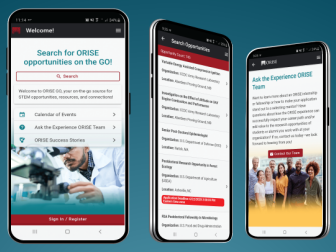
You will receive a stipend to be determined by AFIT. Stipends are typically based on a participant's academic standing, discipline, experience, and research facility location. Other provisions may include the following:

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

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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 completed a master's degree within the last five years and have a GPA 3.5 or higher.

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

- Quantum optics experimentation

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. For foreign degrees, a US degree equivalency should be obtained from WES or similar evaluation organizations. Click here for detailed information about acceptable transcripts.
- One Recommendation. 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. Please list the reference code of this opportunity [AFIT-2025-0015 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!

Point of Contact

Leslie

Eligibility

- **Citizenship:** LPR or U.S. Citizen

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Requirements

- **Degree:** Master's Degree received within the last 60 month(s).
- **Minimum Overall GPA:** 3.50
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 👁)
  - **Mathematics and Statistics** (11 👁)
  - **Physics** (16 👁)
  - **Science & Engineering-related** (1 👁)