

Opportunity Title: Research Internship in Statistical Decay Analysis at the Air Force Institute of Technology
Opportunity Reference Code: AFIT-2026-0021

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 Air Force Institute of Technology is offering a post-Master's fellowship at Wright Patterson Air Force Base, Ohio.

What will I be doing?

As an ORISE participant, you will engage in an innovative research experience focused on the application of artificial intelligence (AI) and machine learning (ML) to advanced manufacturing and supply chain risk assessment. The research will explore the development and adaptation of machine learning and large language models to identify patterns, detect anomalies, and evaluate emerging risks associated with surge manufacturing and supply chain integrity. You will investigate the integration of mathematical approaches, including graph-based models, with predictive algorithms and explore methods for developing reliable, data-driven AI frameworks. This opportunity will provide exposure to the research and evaluation of end-to-end AI methodologies while advancing your understanding of how emerging AI technologies can be applied to complex manufacturing and supply chain challenges.

Why should I apply?

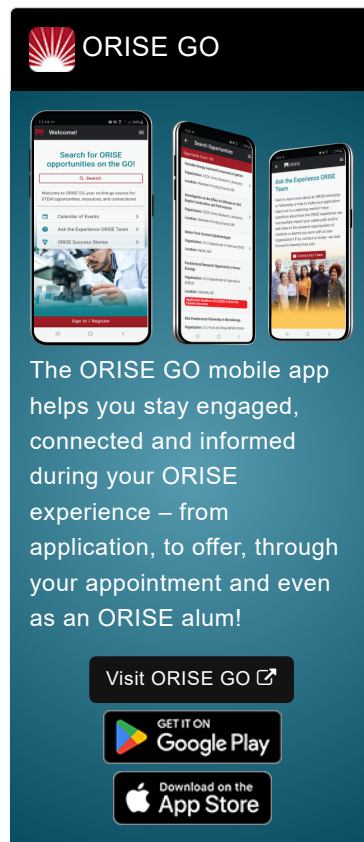
Under the guidance of a mentor, you will gain hands-on research experience at the intersection of artificial intelligence, machine learning, predictive modeling, and advanced manufacturing. This opportunity is designed to complement your academic background while expanding your technical knowledge and preparing you to address complex, real-world research challenges. Throughout the appointment, you will have opportunities to:

1. Expand your knowledge and practical experience with machine learning methodologies by exploring predictive and classification models used to identify patterns, anomalies, and potential risks within complex datasets.
2. Develop a deeper understanding of end-to-end AI research methodologies by examining how data preparation, model development, evaluation, validation, and interpretation can be integrated into comprehensive AI frameworks.

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.



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What is the appointment length?

This appointment is a twelve-month 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 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.

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 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 have a Master's degree in any of the academic disciplines listed in the eligibility section of the opportunity. The degree must have been earned within 5 years of the appointment start date.

Preferred Skills:

- Machine Learning Modeling and Mathematical Applications

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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 - 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(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-2026-0021] 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](#)

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| Eligibility Requirements | <ul style="list-style-type: none">• Citizenship: U.S. Citizen Only• Degree: Master's Degree received within the last 60 month(s).• Minimum Overall GPA: 3.50• Discipline(s):<ul style="list-style-type: none">◦ Computer, Information, and Data Sciences (4 )◦ Mathematics and Statistics (11 ) |
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