

Opportunity Title: Engineering Postdoctoral Researcher: Resilient Facilities and Infrastructure

Opportunity Reference Code: AFIT-2021-0075

Organization U.S. Department of Defense (DOD)

Reference Code AFIT-2021-0075

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 postdoctoral fellowship 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 design robust frameworks to identify risks to, and improve the resilience of, interdependent facilities and infrastructure systems.

As a member of this research team, you will develop quantitative methods by which (1) climate risk to facilities and infrastructure can be assessed; and (2) adaption pathways for installations can be created to arrive at a threat-robust state.

Where will I be located? Dayton, Ohio

What is the anticipated start date?

AFIT is ready to make appointments immediately. 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 or 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 AFIT. Stipends are typically based on a participant's academic standing, discipline, experience, and research facility location. Other benefits may include the following:

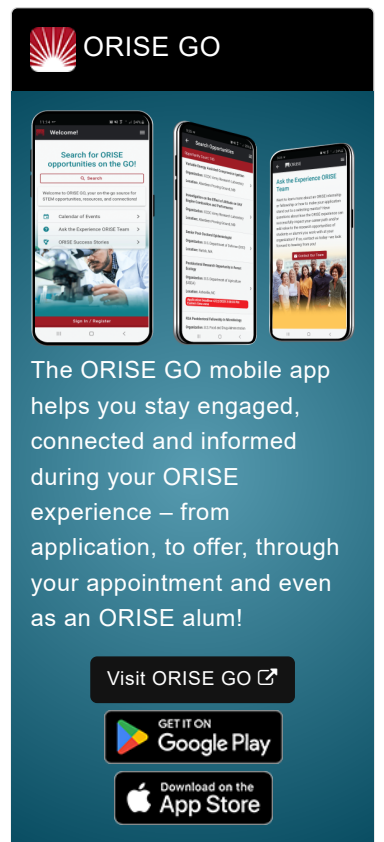
- Health Insurance Supplement (*Participants are eligible to purchase health insurance through ORISE*)
- Relocation Allowance
- Training and Travel Allowance

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 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



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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 a Doctoral degree, which must have been received in the last 5 years of the appointment start date.

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

- Experience in resilience engineering with a focus on facilities and infrastructure or asset management
- Experience modeling interdependencies and cascading effects of failure
- Experience with spatiotemporal optimization and simulation, from conceptualization through interpretation and presentation of results
- Ability to work on multiple projects
- Ability to integrate the research of several graduate students to advance understanding and practice of facilities and infrastructure resilience
- Ability to produce publishable manuscripts

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-2021-0075) in the subject line of the email.

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|---------------------|---|
| Eligibility | <ul style="list-style-type: none">• Citizenship: U.S. Citizen Only |
| Requirements | <ul style="list-style-type: none">• Degree: Doctoral Degree received within the last 60 month(s).• Discipline(s):<ul style="list-style-type: none">◦ Chemistry and Materials Sciences (12 )◦ Communications and Graphics Design (2 )◦ Computer, Information, and Data Sciences (17 )◦ Earth and Geosciences (21 )◦ Engineering (27 )◦ Environmental and Marine Sciences (14 )◦ Life Health and Medical Sciences (46 )◦ Mathematics and Statistics (10 )◦ Physics (16 )◦ Science & Engineering-related (1 )◦ Social and Behavioral Sciences (28 ) |