Opportunity Title: Postdoctoral Construction and Engineering Researcher at AFIT
Opportunity Reference Code: AFIT-2026-0026

Organization U.S. Department of Defense (DOD)

Reference Code AFIT-2026-0026

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, Ohio.

What will I be doing?

As an ORISE participant, you will engage in interdisciplinary research projects focused on construction engineering and management at the Air Force Institute of Technology (AFIT). These projects encompass a variety of research areas, including advanced and sustainable construction materials, infrastructure performance and resilience, construction project management, life-cycle cost and sustainability assessments, and engineering decision-support systems. The research emphasizes the application of data-driven approaches and engineering methodologies to investigate challenges associated with construction materials, processes, and infrastructure systems, with an overall focus on improving their performance, resilience, and sustainability.

Why should I apply?

Under the guidance of a mentor, you will gain hands-on research experience to complement your education and support your academic and professional development. You will be exposed to advanced research methods in construction engineering, including experimental design, quantitative analysis, engineering modeling, and the evaluation of construction materials, processes, and infrastructure systems. In addition, through collaborative and multidisciplinary research, you will have opportunities to contribute to the development of new research initiatives while expanding your knowledge and experience in the following areas:

- Research Methodologies and Applications: Exploring and applying research methodologies to investigate emerging topics in sustainable and advanced construction materials, resilient infrastructure performance, life-cycle assessment, construction economics, project management, and engineering decision-support systems.
- Research Analysis and Interpretation: Gaining practical experience in laboratory, analytical, and/or computational investigations, including the analysis and interpretation of research data to support technically sound engineering conclusions and recommendations.
- Scholarly Communication: Strengthening scientific communication skills through the preparation of peer-reviewed journal publications, technical reports, conference papers and presentations, and research proposals.

Where will I be located?

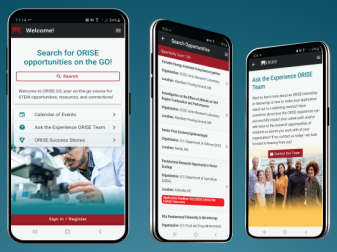
Dayton, Ohio

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.

What is the appointment length?

OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION
ORISE GO



The ORISE GO mobile app helps you stay engaged, connected and informed during your ORISE experience – from application, to offer, through your appointment and even as an ORISE alum!

Visit ORISE GO
GET IT ON Google Play
Download on the App Store

Opportunity Title: Postdoctoral Construction and Engineering Researcher at AFIT
Opportunity Reference Code: AFIT-2026-0026

This appointment is a nine-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 will hold a Ph.D. in Civil Engineering, Construction Engineering and Management, or a closely related field. The degree must have been earned within 5 years of the appointment start date.

Preferred Skills:

A background in construction engineering, construction materials, infrastructure systems, or construction management.

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)

Opportunity Title: Postdoctoral Construction and Engineering Researcher at AFIT
Opportunity Reference Code: AFIT-2026-0026

- 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-2026-0026] 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 Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Engineering** (3 👁)