Opportunity Title: Nuclear Engineering / Nuclear Physics Post-doc
Opportunity Reference Code: AFIT-2021-0053

Organization U.S. Department of Defense (DOD)

Reference Code AFIT-2021-0053

How to Apply Components of the online application are as follows:

- Profile Information
- 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(s)

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system.

If you have questions, send an email to **AIRFORCE@orise.orau.gov**. Please list the reference code of this opportunity in the subject line of the email.

All documents must be in English or include an official English translation.

Letter of Recommendation: While a letter of recommendation is not required to be considered, applicants are required to provide contact information for one recommendation in order to submit the application. Applicants are encouraged to request a letter of recommendation before submission as this may help reviewers have a better understanding of the applicant's qualifications and interests. If selected, a letter of recommendation must be submitted on your behalf upon acceptance of the appointment.

Description AFIT's mission is to help build America's airpower, by educating military and civilian Airmen to innovatively accomplish the Air Force's core missions, in support of joint operations, more effectively, efficiently, sustainably and affordably. We provide unique defense-focused, research-enabled, multi-disciplinary advanced academic education, as well as globally delivering career-long, action-based, functional professional continuing education, over a continuum of learning, on-command and on-demand. Our success is measured by the career-long contributions of our graduates, faculty and staff. AFIT accomplishes this mission through four schools: the Graduate School of Engineering and Management, the School of Systems and Logistics, the Civil Engineer School, and the School of Strategic Force

Studies. To learn more about the research performed at AFIT, please visit www.afit.edu.

This opportunity is offered through the NEAT Center, which is located at the Air Force Institute of Technology (AFIT). Under the guidance of a mentor, the participant will gain a broad experience in relevant nuclear technologies and engineering at the graduate level as it applies to the US Air Force and Department of Defense and will benefit from the opportunities to conduct research with AFIT's experienced, professional faculty. This post-doctoral opportunity is linked to the development of human capital to support the Nuclear Enterprise through hands-on experiments, the application of computational analysis techniques, and interaction with students, government (Military and National Laboratory) sponsors, and civilian university collaborators.

This opportunity is sponsored by the Defense Threat Reduction Agency and supports applications in stockpile stewardship, nuclear security, and basic nuclear physics. For example, current activities include the measurement of inelastic scattering cross sections on nuclei, neutron spectroscopy, organic scintillator characterization for neutron detection, development of new nuclear environment test capabilities, and radiation effects on electronics. Primary activities for this opportunity include the support and execution of experimental campaigns, development of analysis tools, data analysis and interpretation, manuscript development, and communication of research at relevant scientific meetings. Research activities will be performed at AFIT and collaborator facilities throughout the DOD and DOE.

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.

Participant Benefits

Participants will receive a stipend to be determined by **AFIT.** Stipends are typically based on the 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

Nature of Appointment

The participant will not enter into an employee/employer relationship with ORISE, ORAU, DOD, or any other office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment

Opportunity Title: Nuclear Engineering / Nuclear Physics Post-doc
Opportunity Reference Code: AFIT-2021-0053

through the ORISE appointment letter and Terms of Appointment.

Qualifications Candidates should have a PhD in a Nuclear Engineering, Nuclear Physics, or related field.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Doctoral Degree received within the last 60 months or currently pursuing.
- **Discipline(s):**
  - **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 👁)
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).