Opportunity Title: Kinetic Effects Research Fellowship
Opportunity Reference Code: DTRA-2027-0002

Organization U.S. Department of Defense (DOD)

Reference Code DTRA-2027-0002

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

Description The Test Support Division, Test Science Branch, of the Research and Development Directorate for the Defense Threat Reduction Agency (DTRA) is offering a master's/doctoral level fellowship opportunity in optical, electro-optical, and spectroscopic sensor testing for DTRA .

What will I be doing and why should I apply?

The Fellow will engage in educational and research experiences related to kinetic and non-kinetic weapons effects testing conducted at White Sands Missile Range and Kirtland Air Force Base. These experiences will provide opportunities to participate in research planning activities, experimental design concepts, data collection, and data analysis associated with weapons effects investigations.

The ORISE Fellow will have the opportunity to learn and gain experience from:

- Participating in collaborative research activities related to test planning concepts, diagnostic technologies, analytical approaches, and presentation methods associated with kinetic and non-kinetic weapons effects investigations.
- Researching scientific and engineering topics associated with weapons effects studies, examining research questions, and exploring the feasibility of concepts related to prospective research efforts and experimental activities.
- Participating in data collection and analysis activities, examining experimental results, interpreting observations, and strengthening scientific communication and presentation skills.
- Collaborating and participating in technical discussions with researchers, technical personnel, and other stakeholders to exchange scientific information, discuss research approaches, and broaden understanding of weapons effects concepts and methodologies.

Through these experiences, the Fellow is expected to develop increased knowledge of modeling and analysis approaches used to study interactions between weapons systems and targets, as well as the response and damage characteristics of targets exposed to weapons effects. The Fellow will also strengthen their understanding of the scientific and engineering principles that support weapons effects research and testing environments.

Where will I be located?

Albuquerque, New Mexico

What is the anticipated start date?

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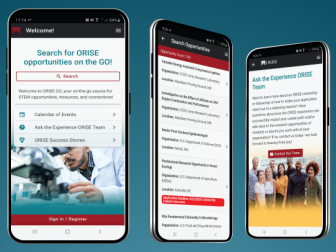

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The Test Support Division, Test Science Branch at DTRA is ready to make appointments immediately. Exact start dates will be determined at the time of selection and in coordination with the selected candidate. Applications are reviewed on an ongoing basis and internships or fellowships will be filled as qualified candidates are identified.

What is the appointment length?

This appointment is a full-time, 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 DTRA. Stipends are typically based on a participant's academic standing, discipline, experience, and research facility location. The anticipated stipend range for this opportunity is $5400-$5800 per month based on full-time participation.

Other provisions may include the following:

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

About DTRA

The Defense Threat Reduction Agency provides cross-cutting solutions to enable the DoD, the United States Government, and international partners to DETER strategic attack against the United States and its allies; PREVENT, reduce, and counter Weapons of Mass Destruction (WMD) and emerging threats; and PREVAIL against WMD-armed adversaries in crisis and conflict. This opportunity is within the Research and Development Directorate of DTRA, Test and Assessment Department. For more information about the DTRA, please visit https://www.dtra.mil/.

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

A qualified candidate will have earned, or be currently pursuing, a master's or doctoral degree in successful candidates will have a degree in Engineering (General), Mechanical Engineering, Civil Engineering, or Physics (General). Degree must have been received within the past 5 years or obtained within 6 months of the start date.

- Experience with MATLAB and High Performance Computing (HPC) is preferred.
- Familiarity with emerging technologies including instrumentation. computer modeling &

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simulation (e.g. Matlab, CFD, and/or other), and the use of a variety of computer models for the prediction and planning of test events.

- Minimum GPA of 3.0 is required
- Must be at least 21 years of age at the time of application
- Must be able to obtain and hold a SECRET security clearance and pass random drug screening
- Must be a U.S. Citizen

The selected candidate must be able to pass interim SECRET security clearance requirement, hold a SECRET security clearance, and pass random drug screening. **Appointment offers will be rescinded should the candidate fail to meet the drug screening and interim security clearance requirement.**

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.
- Two Recommendations - We encourage you to contact your recommender 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. The recommender 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 STEM-WORKFORCE@orise.orau.gov. Please list the reference code of this opportunity [DTRA-2027-0002] in the subject line of the email.

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!

Stipend $5,500.00 – $6,000.00 Monthly

Point of Contact Brittany

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree or Doctoral Degree received within the last 6 months or currently pursuing.
- **Minimum Overall GPA:** 3.00
- **Discipline(s):**
  - **Engineering** (4 👁)
  - **Physics** (1 👁)
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).

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Affirmation I affirm that I am 21 years of age or older at the time of application.