

**Opportunity Title:** Health Physics Internship Opportunity

**Opportunity Reference Code:** DTRA-2024-0007

**Organization** U.S. Department of Defense (DOD)

**Reference Code** DTRA-2024-0007

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

**Description** The Defense Threat Reduction Agency (DTRA) Safety and Environmental Division (TSE) is offering a bachelor's or master's level internship opportunity in health physics. TSE ensures compliance with environmental and safety regulations related to DTRA testing activities at White Sands Missile Range, Kirtland Air Force Base, and other locations.

**What will I be doing and why should I apply?**

DTRA-West offers a distinctly unique experience for research-based experiences, professional development, and future career opportunities for selected fellows and interns, not to mention the beauty of Albuquerque and the surrounding area. As a selected candidate, you will engage with researchers and engineers within the DTRA complex and be a part of, and witness to, objective evaluations and assessments of new capabilities aimed at countering WMD and emerging threats. Albuquerque is New Mexico's largest city, where the modern city skyline is set against a backdrop of the stunning Sandia Mountains and an endless, timeless blue sky. Albuquerque boasts a unique multicultural history and heritage. [Native American](#), [Hispanic & Latino](#) cultural influences are a part of everyday life.

As an ORISE participant, you will join a community of scientists and researchers, engaging in planning and accomplishing health physics research projects in a military/industrial setting and provide experience necessary to perform routine health physics activities in support of NRC licenses and DOD activities. You will receive hands on experience with radiation detection equipment, detection of radiation and contamination, surveys, dosimetry, dose calculations, inventories, source security, NRC compliance, test support and execution. Under the guidance of a mentor, you will engage in online research activities involving assessment and risk management.

Learning opportunities will include:

- Collecting samples, analyze data, and collaborate with test teams
- Participating in training in health physics topics such as biological effects, dosimetry, environmental, emergency response, radioactivity, nuclear and radiological, interactions in matter, gamma spectroscopy, shielding, and how they apply to testing
- Collaborating with various team members and leaders in DTRA to ensure successful test execution

**Where will I be located?**

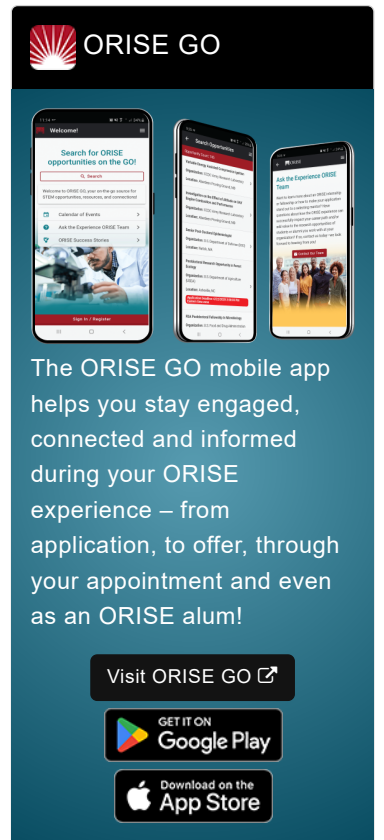
Albuquerque, New Mexico

**What is the anticipated start date?**

The Safety and Environmental Division (TSE) 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

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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 benefits?**

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 \$5300-\$5800 per month based on full time participation.

Other benefits 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** The qualified candidate will have an earned bachelor's or master's degree in Physics, Biology, Chemistry, Engineering or other natural science that includes at least 30 semester hours in health physics, engineering, radiological science, chemistry, physics, biology, mathematics, and/or calculus. The degree needs to be obtained within the past 60 months, or are expected to earn the degree in one of these disciplines by December 31, 2024

- Minimum GPA of 3.0 is required
- Candidate must be at least 18 years of age at the time of application
- Must be a U.S. Citizen
- Must be able to pass interim security clearance and pass random drug screening
- Candidates who are currently students or graduates of an HBCU or MSI are encouraged to apply

Highly qualified candidates will demonstrate:

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- Experience with differential equations
- Nuclear/radiological knowledge
- Experience with radiological sources
- Experience with rad detectors

The selected candidate must be able to pass interim security clearance requirement, hold a 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.](#)
- One Recommendation - 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.

Please contact [stem-workforce@orise.orau.gov](mailto:stem-workforce@orise.orau.gov) with questions and include the reference code of this opportunity DTRA-2024-0007 in the subject line of the email.

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- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Bachelor's Degree or Master's Degree received within the last 60 months or anticipated to be received by 12/31/2024 11:59:00 PM.
  - **Minimum Overall GPA:** 3.00
  - **Discipline(s):**
    - **Chemistry and Materials Sciences** ([12](#))
    - **Engineering** ([27](#))
    - **Life Health and Medical Sciences** ([51](#))
    - **Mathematics and Statistics** ([11](#))
    - **Physics** ([16](#))
  - **Age:** Must be 18 years of age