

**Opportunity Title:** Mercury Technology Development Project  
**Opportunity Reference Code:** DOE-MSIPP-23-2-DOE-OREM

**Organization** U.S. Department of Energy (DOE)

**Reference Code** DOE-MSIPP-23-2-DOE-OREM

**How to Apply** A complete application consists of the following:

- An online application completed through Zintellect
- Completed references
- Undergraduate and graduate transcripts (uploaded as part of the application)

**Description** **About EM Graduation Fellowship Program**

The EM Graduate Fellowship Program (EMGFP), under the Department of Energy Office of Environmental Management's Minority Serving Institutions Partnership Program, is designed to provide science and engineering students and graduates from Minority Serving Institutions (MSIs) an opportunity for training and mentorship in targeted technical areas of interest and needs of the DOE-EM workforce.

Technical Areas of Interest for the fellowship will span across a range of topics, including:

- Environmental Remediation and Stewardship
- Nuclear Materials Processing and Disposition
- Cyber Security
- Advance Manufacturing
- Climate Change
- Deactivation & Decommissioning
- Robotics
- Artificial Intelligence

The desired outcome of the program is to develop exceptional graduate students into future leaders who pursue careers at the DOE, DOE National Laboratories, DOE Contractors, other federal agencies, or STEM related industry.

The year-long, paid fellowship will:

- Offer specialized training, leadership development, and professional networking.
- Provide extensive interaction and collaboration with leading DOE National Laboratory researchers, scientists, and engineers.
- Provide hands-on field research experience that could lead to a potential career opportunity within the DOE Complex.
- Stimulate the potential for an increase of minority students entering STEM careers at the graduate level.

**Important Dates**

- December 31, 2022 - Application deadline
- June 1, 2023 - Fellowship start date
- May 31, 2024 - Fellowship end date



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### **Fellowship Benefits**

- Stipend
  - Master's in Progress - \$60,000
  - Post-Master's - \$72,000
- Training and associated travel allotment - \$10,000/Fellow
- Onboarding incentive - \$4,000/Fellow
- Professional trips allotment - \$5,000/Fellow
- Comprehensive benefits for limited term employees
- Engagement with DOE-EM
- Professional development and networking opportunities

### **Important Information**

- Telework is not available for this fellowship
- Housing and transportation are not provided

### **Project Description**

This project encompasses scope for near term mercury reduction actions while conducting studies to develop methods and technologies to further mitigate mercury exposure as decontamination and demolition projects, (D&D) and remediation activities are planned to begin within the next decade. Activities are centered on soil and groundwater studies, evaluating water chemistry and sediment manipulation, analyzing ecological manipulation, designing a field research center, and evaluating mercury issues involving mercury contaminated debris disposal that supports D&D at the Y-12. The EM Fellow will receive training and mentorship from the Portfolio Federal Project Director (PFPD) at the Y-12 facility in Oak Ridge, TN on mercury technology and development. Through this opportunity, the EM Fellow will learn how to review contractor analytical reports, learn from regulatory meetings with the EPA and the Tennessee Department of Environmental Conservation (TDEC), learn from project briefings with senior management, and learn how to prepare weekly status reports.

### **Qualifications Program Eligibility:**

- Must be a U.S. citizen
  - Must be eligible for a security clearance based on position requirements
  - Must have earned or be working towards a STEM degree
  - Must have graduated from or be enrolled at a Minority Serving Institution
  - Education Requirements:
    - 1) Must be enrolled in a graduate program at the time of application AND have a current cumulative GPA of at least 3.0 on a 4.0 scale.
- OR**
- 2) Must have completed a graduate degree program AND must have a final cumulative GPA of at least 3.0 on a 4.0 scale.

Undergraduate cumulative GPA will be considered for applicants who have not officially started their graduate program.

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Successful applicants who are pursuing a graduate degree will be expected to prioritize the GFP work assignment and maintain at least a 3.0 GPA. It is highly encouraged that Master's In Progress Fellows enroll in evening, virtual, and/or weekend courses while participating in the GFP.

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Master's Degree.
  - **Overall GPA:** 3.00
  - **Discipline(s):**
    - **Chemistry and Materials Sciences** ([12](#) 👁)
    - **Computer, Information, and Data Sciences** ([17](#) 👁)
    - **Earth and Geosciences** ([21](#) 👁)
    - **Engineering** ([27](#) 👁)
    - **Environmental and Marine Sciences** ([14](#) 👁)
    - **Life Health and Medical Sciences** ([48](#) 👁)
    - **Mathematics and Statistics** ([11](#) 👁)
    - **Physics** ([16](#) 👁)

**Affirmation Certification:**

I certify that I am at least 18 years of age, a US citizen, and have either graduated from or am currently enrolled as a student in a degree-seeking graduate STEM field program at an accredited Minority Serving Institution (MSI). Click [here](#) to verify that you are enrolled or have graduated from a current MSI.