

**Opportunity Title:** Reducing Mercury Exposures from Artisanal Gold Shops

**Opportunity Reference Code:** DOE-MSIPP-17-6-ANL

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

**Reference Code** DOE-MSIPP-17-6-ANL

**How to Apply** A complete application must include the following to be considered:

- Completion of all required fields in the application and successful application submission
- Undergraduate or graduate transcripts as appropriate
- Two recommendations

If you have questions, send an email to Kerri Fomby at [kerri.fomby@orau.org](mailto:kerri.fomby@orau.org). Please include the reference code for this opportunity in your email.

For technical questions, please contact Lisa Reed at [lisareed@anl.gov](mailto:lisareed@anl.gov).

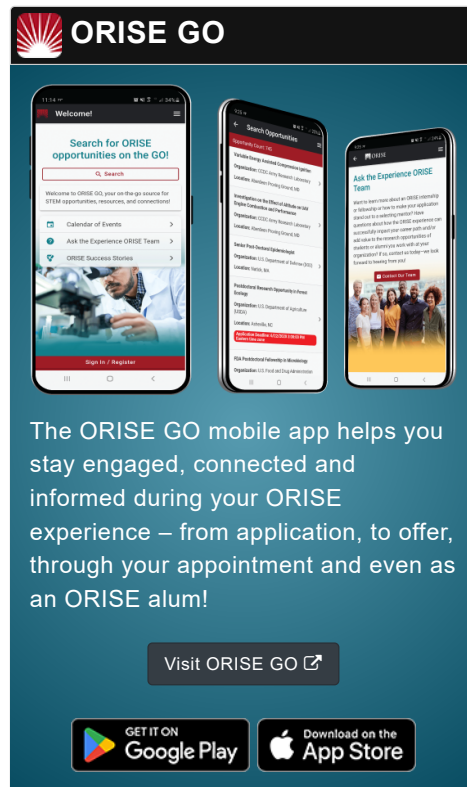
**Application Deadline** 3/27/2017 12:00:00 AM Eastern Time Zone

**Description** The Minority Serving Institutions Partnership Program (MSIPP) Internships is a new program to promote the education and development of the next generation workforce in critical science, engineering, technology, and math (STEM) related disciplines that complement current and future missions of DOE national laboratories. The MSIPP Internship program is designed to provide an enhanced training environment for next generation scientists and engineers by exposing them to research challenges unique to our industry.

MSIPP Interns will be given the opportunity to complete Summer Internships aligned with ongoing U.S. Department of Energy Office of Environmental Management (DOE-EM) research under the direction of a host national laboratory. The internship will be performed at the host national laboratory, utilizing their facilities and equipment under the guidance of a research staff member.

Minority Serving Institutions are institutions of higher education enrolling populations with significant percentages of undergraduate minority students.

**Project:** Four internships are being offered to search scientific and engineering literature for information about best practices for reducing mercury releases to air during the processing of gold from artisanal and small-scale gold mining (conducted in >55 countries, producing ~20% of gold supply) – with an emphasis on mercury capture devices for gold shops (piloted in Brazil and Peru); help develop fact sheets to inform gold shop workers and the community, including ways to maintain the devices, to help reduce exposures and improve health.

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**Location:** These internships will be located at Argonne National Lab.

**Salary:** Selected candidates will be compensated by either a stipend or salary, and may include one round trip domestic travel to and from the host laboratory. Stipends and salaries will be commensurate with cost of living at the location of the host laboratory. Housing information will be provided to interns prior to arrival at the host laboratory, and will vary from lab to lab.

**Application Deadline:** March 27, 2017

**Expected Start Date:** May 31, 2017

**Qualifications** Eligible applicants must:

- Be a citizen of the United States,
- Be at least 18 years of age,
- Currently enrolled as a full-time undergraduate or graduate student at an accredited Minority Serving Institution, <http://orise.ornl.gov/sepreview/msipp/Approved%20MSI%20School%20List%202017.pdf>,
- Working toward a science, technology, engineering, or mathematics (STEM) degree,
- Have an undergraduate or graduate cumulative minimum Grade Point Average (GPA) of 3.0 on a 4.0 scale, and
- Pass a drug test upon selection to participate in the MSIPP\*The process and timing for drug testing varies from lab to lab. Use of Marijuana/Cannabis or its derivatives if prescribed is legal in some states. However, having these drugs in your system is NOT legal at United States Federal Contractor sites and National Laboratories.

#### **Required Knowledge, Skills, Work Experience, and Education**

**Successful candidates will:**

- Be a current undergraduate or graduate student in Environmental Science, Technology, and/or Engineering concepts -- such as Environmental Chemistry (Geochemistry, Atmospheric Chemistry); or Biochemistry/Human Health and Risk Assessment; or Technology Concepts for reducing contaminant concentrations in air, water, or soil; or sensing technology (e.g., used in mobile devices to monitor environmental/health conditions).

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### Desired Knowledge, Skills, Work Experience, and Education

It is desirable for the candidates to have:

- Ability to pursue, critically review, and synthesize information; strong data integration and writing skills; familiarity with biology/biochemistry, human health, environmental chemistry, environmental engineering.

#### Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Currently pursuing a Bachelor's Degree or Master's Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 )
  - **Communications and Graphics Design** (6 )
  - **Computer, Information, and Data Sciences** (16 )
  - **Earth and Geosciences** (21 )
  - **Engineering** (27 )
  - **Environmental and Marine Sciences** (14 )
  - **Life Health and Medical Sciences** (45 )
  - **Mathematics and Statistics** (10 )
  - **Other Non-Science & Engineering** (3 )
  - **Science & Engineering-related** (1 )
  - **Social and Behavioral Sciences** (1 )

#### Affirmation

I certify that I am at least 18 years of age and a US citizen, and am currently enrolled as a student in a degree seeking undergraduate or graduate program in a STEM field at an accredited Minority Serving Institution (MSI).