

Opportunity Title: Understanding the Relationships among Low Level Metal Influx, Sediments and Biological Receptors

Opportunity Reference Code: DOE-MSIPP-16-03-SRNL

Organization U.S. Department of Energy (DOE)

Reference Code DOE-MSIPP-16-03-SRNL

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

- Completion of all required fields in the application
- Undergraduate transcripts
- One Recommendation (minimum)

If you have questions, send an email to Elizabeth Nelson at Elizabeth.Nelson@ornl.gov. Please include the reference code for this opportunity in your email.

Application Deadline 3/16/2016 11:59:00 PM 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.


Environmental Sciences and Biology is looking for undergraduate or graduate student interns with a background in chemistry or biology to support the DoD/SERDP funded project, "Understanding the relationships among low level metal influx, remediated sediments, and biological receptors (Project ER-2427)." The objective of this project is to better understand how ongoing sources of pollution affect treated sediments and to develop technologies to overcome this problem. The intern will assist in these studies by measuring surface water and sediment pore water parameters in laboratory mesocosm experiments that investigate the recontamination of sediments by metals and the effects of recontamination on benthic organisms. Duties will include taking samples and conducting water quality analyses under the supervision of the principal investigator and other collaborators. The work will include the use of Diffusive Gradient in Thin films (DGT) probes, an innovative passive sampling technology for assessing the contaminant fraction that is bioavailable to aquatic organisms.




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Influx, Sediments and Biological Receptors

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Qualifications The successful candidate will be an undergraduate or graduate student studying chemistry, biology or environmental science. Previous laboratory experience and Microsoft Suite computer skills are strongly preferred.

Eligibility Requirements:

1. Be currently enrolled as a full-time undergraduate or graduate student at an accredited Minority Serving Institution *see criteria for Minority Serving Institutions here <http://srnl.doe.gov/msipp/internships.htm>
2. Be working towards a science, technology, engineering, or mathematics (STEM) degree
3. Have an undergraduate cumulative minimum Grade Point Average (GPA) of 3.0 on a 4.0 scale
4. Be a United States citizen
5. 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.
6. Reference must be received by March 6, 2016 at 11:59 PM ET

For more information about The Minority Serving Institutions Partnership Program (MSIPP) Internships, please visit <http://srnl.doe.gov/msipp/internships.htm>

To see all MSIPP position postings visit: www.orise.orau.gov/MSIPP

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Bachelor's Degree or Master's Degree.
 - **Overall GPA:** 3.00
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([12](#) )
 - **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](#) )
 - **Physics** ([16](#) )
 - **Science & Engineering-related** ([1](#) )

Affirmation I certify that I am pursuing or have completed coursework towards a degree in science, technology, engineering, mathematics, or a related field.