Opportunity Title: Water sustainability for renewable fuels
Opportunity Reference Code: DOE-MSIPP-21-14-ANL

Organization U.S. Department of Energy (DOE)

Reference Code DOE-MSIPP-21-14-ANL

How to Apply

- 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 at MSIPPInternships@orau.org. Please include the reference code for this opportunity in your email.

For Technical information, contact Lisa Reed at lisareed@anl.gov.

Certification:

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 program in a STEM field at an accredited Minority Serving Institution (MSI).

Application Deadline 1/29/2021 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.

Project: This project will develop an evaluation of current practices and planned targets in water resource conservation strategies that adopt reduce, reuse, and recycle irrigation and process water in energy production. This work will be conducted in collaboration with major national task force in water reuse and water industry. Literature review will be performed and data will be collected from publicly available open platform and federal, state, and local databases. Analysis will be applied to assess the impacts of various programs on regional and national water resource availability and resource consumption. Technical and

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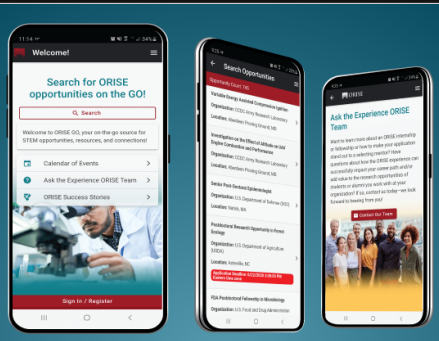

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programmatic hurdles will be identified. Results will be assembled into a database.

Salary: Selected candidate 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.

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, https://orise.orau.gov/msipp/documents/approved-msi-school-list.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 rising junior or senior undergraduate student studying microbiology, biochemistry or chemistry.
- Have the ability to complete a scientific literature review on subject of study.
- Have skills and maturity to operate advanced laboratory instruments, perform experiments, analyze data, and maintain records in the environmental biotechnology laboratory.
- Have ability to follow all laboratory safety rules and procedures.

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Currently pursuing a Bachelor's Degree.
- **Overall GPA:** 3.50
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (5 👁)
  - **Earth and Geosciences** (21 👁)
  - **Engineering** (27 👁)
  - **Environmental and Marine Sciences** (14 👁)

- **Mathematics and Statistics** (10 👁)

Affirmation

Certification:

I certify that I am at least 18 years of age, a US citizen, and currently enrolled as a student in a degree seeking undergraduate program in a STEM field at an accredited Minority Serving Institution (MSI). Click here to verify that you are enrolled at a current MSI.