

**Opportunity Title:** Cyber and Information Technology Internship

**Opportunity Reference Code:** DOE-MSIPP-21-2-SRNL

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

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- 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@oraui.org](mailto:MSIPPInternships@oraui.org). Please include the reference code for this opportunity in your email.

For Technical information, contact Lewann Belton at [Lewann.Belton@srs.gov](mailto:Lewann.Belton@srs.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 or graduate program in a STEM field at an accredited Minority Serving Institution (MSI).

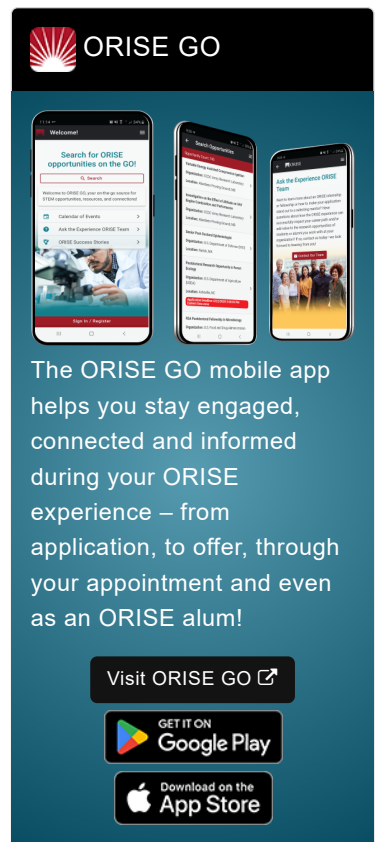
**Application Deadline** 1/29/2021 11:59:00 PM Eastern Time Zone

**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:** The goal of a summer internship experience in the Office of Cyber and Information Technology Division is to provide an overall level of experience from the organization managing and overseeing a myriad of regulatory requirements and industry best practices from various sources intent on ensuring the secure and efficient implementation of information technology systems with inherently limited resources. The speed at which the requirements evolve inevitably lags behind the technology itself and are immediately challenged by novel, aggressive and motivated attempts to compromise the system's availability, integrity and confidentiality. The measurement of the adherence to or maturity of the requirement's implementation spawns endless cycles of auditing from disparate internal and external assessment groups producing numerous corrective and improvement actions to resolve. Efficiency and effectiveness are paramount in the management of available resources. For Federal agencies, the




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recently released gold standard, the National Institute of Standards and Technology Special Publication 800-53 Revision 5, is a prime opportunity for an organization to evaluate the newest updates against their environments at a macro level to streamline the entire Risk Management lifecycle in accordance with those paramount tenants. The MSIPP selected candidate will participate in the analysis and process improvement activities with the vantage point of a federal agency and an associated government contractor.

Additional focus areas:

- Planned Assessment (IT\Cybersecurity)
- Cybersecurity Lab Development
- Application Development

The intern will work directly with the subject matter expert (SME). Results from the learning experience will be documented in one or more technical reports and presentations. The intern will work with a diverse multidisciplinary team of technical SME's, Program and Project Managers, management, and contractors in determining best method(s) to gather and document scope, collaborate closely with senior level managers, develop presentations and documents, and develop communications, critical thinking and team building skills.

**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.

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- 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.

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

**It is desirable for the candidate to have:**

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** High School Diploma/GED, Associate's Degree, or Master's Degree received within the last 6 months or currently pursuing.
  - **Overall GPA:** 3.00
  - **Discipline(s):**
    - **Computer, Information, and Data Sciences** ([17](#))
    - **Engineering** ([1](#))

**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 or graduate program in a STEM field at an accredited Minority Serving Institution (MSI). Click [here](#) to verify that you are enrolled at a current MSI.