

Opportunity Title: Summer Intern, Chemist

Opportunity Reference Code: DOE-MSIPP-20-6-SRNL

Organization U.S. Department of Energy (DOE)

Reference Code DOE-MSIPP-20-6-SRNL

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 transcripts as appropriate
- Two recommendations

If you have questions, send an email to us at MSIPPinternships@orau.org. Please include the reference code for this opportunity in your email.

For Technical information, contact Robert Lascola at Robert.Lascola@srnl.doe.gov.

Application Deadline 1/31/2020 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.

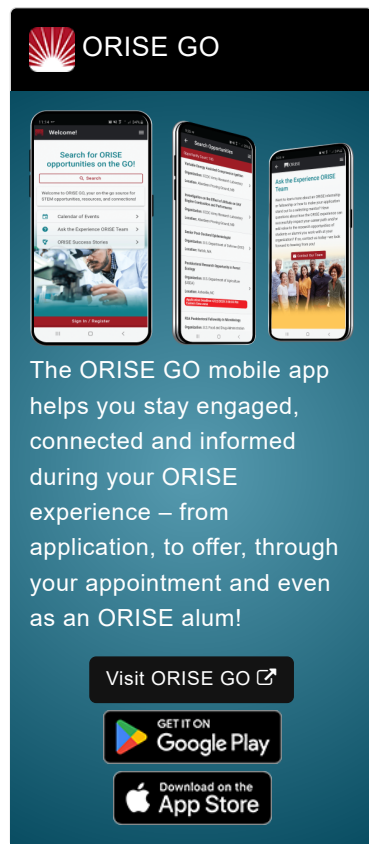
For more information about The Minority Serving Institutions Partnership Program (MSIPP) Internships, please visit [here](#).

To see all MSIPP position postings visit: <https://orise.orau.gov/msipp/>

Project Description:

Date of Appointment: May 26-July 31, 2020

The intern will support the Savannah River National Laboratory Analytical Research and Development group. The primary opportunity will be to work on a project developing and testing materials for trace-level optical sensing of uranium compounds. The project will include nanomaterial synthesis and manipulation, thin film formation, various optical measurements including microscopy and Raman and absorbance spectroscopy. Familiarity with



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these techniques, as well as spectral interpretation and statistical analysis, is a plus. The student will likely also provide technical support on other projects in the group, including design, development, and packaging of process control and monitoring instrumentation, performance testing of associated materials, and sample measurement, data analysis, report writing, etc.

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 Required Knowledge, Skills, Work Experience, and Education Successful candidates will:

- Be a rising junior or senior undergraduate student in engineering or the physical sciences.
- 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:

It is desirable for the candidate to have:

Preferred: experience with nanomaterials synthesis and analytical instrumentation; completion of instrumental coursework and/or analytical instrument experience and/or scientific programming and/or introductory statistics. A course in linear algebra is desirable but not necessary.

- Eligibility**
- Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Currently pursuing a Bachelor's Degree.
 - **Overall GPA:** 3.00
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([5](#) )
 - **Physics** ([3](#) )
 - **Science & Engineering-related** ([1](#) )

Affirmation 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.