

Opportunity Title: CO2 Capture and Usage Internship
Opportunity Reference Code: DOE-MSIPP-20-9-SRNL

Organization U.S. Department of Energy (DOE)

Reference Code DOE-MSIPP-20-9-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 or graduate 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 Tad Whiteside at tad.whiteside@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 18-July 10, 2020

Examine various polymers and attempt to optimize novel ones for use in CO2 capture, alternatively examine catalysts and methods in an attempt to convert CO2 to materials. This work will be based on the 2018 National Academies Report Negative Emissions Technologies and Reliable Sequestration: A research Agenda and the 2019 Gaseous Carbon Waste Streams Utilization, along with various academic papers on these topics.



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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 studying engineering or the physical sciences.
- Have the ability to complete a scientific literature review on subject of study.
- Have ability to follow all laboratory safety rules and procedures.

It is desirable for the candidate to have: Experience in computational chemistry, physical chemistry, materials design.

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Currently pursuing an Associate's Degree, Bachelor's Degree, Master's Degree, or Doctoral 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 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.