

Opportunity Title: Corrosion Science and Engineering Internship
Opportunity Reference Code: DOE-MSIPP-20-13-SRNL



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Organization U.S. Department of Energy (DOE)

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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
- Graduate transcripts as appropriate
- Two recommendations

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

For Technical information, contact pavan.shukla@ornl.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](https://orise.ornl.gov/msipp/).

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

Project Description:

Date of Appointment: May-July 2020

The two projects that are available will involve laboratory work. One will involve performing electrochemical testing to


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understand localized corrosion behavior in alkaline environments. This project is related to the long term storage of liquid waste in large steel tanks. The second project involves corrosion monitoring in a soil environment. This project supports the oil and gas industry in their effort to mitigate tank bottom corrosion of above-ground storage tanks.

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	<p>Required Knowledge, Skills, Work Experience, and Education</p> <p>Successful candidates will:</p> <ul style="list-style-type: none">•Be a current doctoral 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. <p>Desired Knowledge, Skills, Work Experience, and Education It is desirable for the candidate to have:</p> <ul style="list-style-type: none">- Be a a graduate student in materials science engineering, mechanical engineering or chemical engineering.- Have the ability to complete a scientific literature review on sub- Have skills and maturity to operate advanced laboratory instruments, perform experiments, analyze data and maintain records in a materials or corrosion laboratory.- Have the ability to follow all laboratory safety rules and procedures.
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Eligibility Requirements	<ul style="list-style-type: none">• Citizenship: U.S. Citizen Only• Degree: Currently pursuing a Doctoral Degree.• Overall GPA: 3.50• Academic Level(s): Graduate Students.• Discipline(s):<ul style="list-style-type: none">◦ Engineering (3 )
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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 graduate program in a STEM field at an accredited Minority Serving
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Institution (MSI). Click [here](#) to verify that you are enrolled at a current MSI.