Opportunity Title: Modeling Vegetation Dynamics Internship
Opportunity Reference Code: DOE-MSIPP-19-17-LANL

Organization U.S. Department of Energy (DOE)

Reference Code DOE-MSIPP-19-17-LANL

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 Chonggang Xu at cxu@lanl.gov

Application Deadline 1/21/2019 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 http://srnl.doe.gov/msipp/internships.htm.

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

Project:

Multiple projects on modeling vegetation dynamics under different environmental conditions (e.g., coastal, tropics and arctic) are available. The projects target to 1) improve the current state-of-the-art dynamic vegetation model, the DOE-sponsored Functionally Assembled Terrestrial Simulator (FATES), to better represent the vegetation responses to water/nutrient limitations and salinity stress; 2) parameterize and evaluate the model with observations from field or remote sensing; and 3) test hypotheses related to vegetation responses to changes in future

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environmental conditions. The student will work within a multi-disciplinary team of plant physiologists, ecologists, hydrologists, geomorphologists, and applied mathematicians from LANL and other national laboratories. Training on using and testing models and analysis of model outputs will be provided toward the student's quantitative education.

Location: This internship will be located at Los Alamos National Laboratory.

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.

Application Deadline: January 21, 2019

Expected Start Date: May 28, 2019

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.

Education and skills:

Undergraduate or graduate students majoring in physiology, ecology, hydrology, geomorphology, applied math or a related field. Basic quantitative analysis skills such as statically analysis, data collection and management, and coding experiences.

Eligibility Requirements

- **Citizenship:** U.S. Citizen Only
- **Degree:** Currently pursuing a Master's Degree or Doctoral Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
  - **Earth and Geosciences** (21 👁)
  - **Environmental and Marine Sciences** (6 👁)

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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.