

**Opportunity Title:** Investigation of different prescribed burn strategies for wildfire management

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

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

**Reference Code** DOE-MSIPP-21-2-LANL

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

For Technical information, contact Cassandra Casperson at [Casperson@lanl.gov](mailto:Casperson@lanl.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).

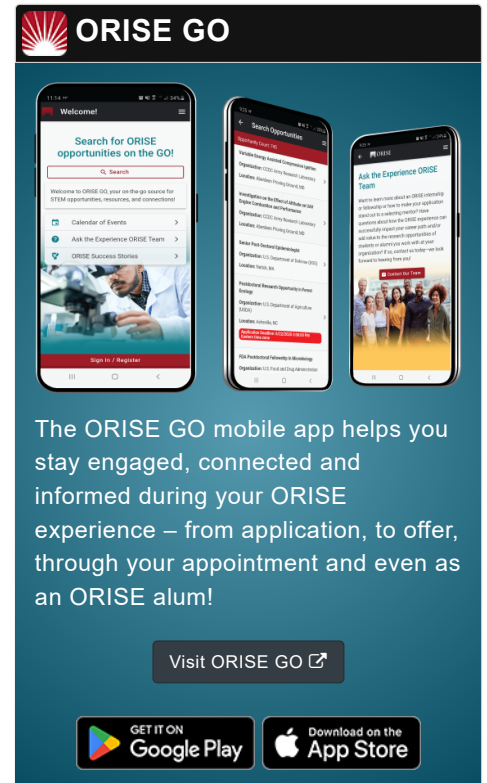
**Application Deadline** 1/29/2021 11:59:00 PM Eastern Time Zone

**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 participant will be involved in investigating the effect of different fuel management strategies and their effect should a wildfire be ignited at a later time. The participant will use the QUIC-Fire code (R&D100 winner for 2020) and develop pre- and post-processing scripts to run ensemble simulations and compare results. Scripts will be developed using Python. If not proficient, the participant will receive an introductory course to Python. Project can be conducted virtually if necessary. Scope will not be affected as it can be carried out with a laptop.

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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** 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.ora.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:**


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

A background in engineering, physics or environmental science is preferred. Programming background in Python or willing to learn Python.

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






- A background in engineering, physics or environmental science is preferred. Programming background in Python or willing to learn Python.
- GPA 3.0 for undergraduate
- GPA 3.2 for graduate

**Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree received within the last 6 months or currently pursuing.
- **Overall GPA:** 3.00
- **Academic Level(s):** Undergraduate Students.
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (2 )

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- **Earth and Geosciences** (3 )
- **Engineering** (7 )
- **Environmental and Marine Sciences** (3 )
- **Life Health and Medical Sciences** (2 )
- **Physics** (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.