Opportunity Title: Thermal Stress Physiological Monitoring
Opportunity Reference Code: DOE-MSIPP-17-2-ANL

Organization U.S. Department of Energy (DOE)

Reference Code DOE-MSIPP-17-2-ANL

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 Kerri Fomby at kerri.fomby@orau.org . Please include the reference code for this opportunity in your email.

For technical questions, please contact Lisa Reed at lisareed@anl.gov.

Application Deadline 3/27/2017 12:00:00 AM 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: Heat Stress evaluation may requires environmental conditions to be monitored as well as the physiological response (heart rate and temperature) of workers. This project will collect information on a variety of workplace conditions throughout Argonne National Laboratory on conditions where workers are exposed to heat stress. Methods will include environmental conditions measurement using wet bulb globe thermometer (WBGT) monitoring as well as heart rate monitoring. Modeling of meteorological station data and calculation of work periods will be performed to evaluate alternatives and options for work

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controls. Data collected will be analyzed to provide detailed data for baseline conditions and exposure assessments of specific activities. Work will be conducted under the direction and control of a Certified Industrial Hygienist in the Environmental, Safety & Quality Division of ANL.

Location: This internship will be located at Argonne National Lab.

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: March 27, 2017

Expected Start Date: May 22, 2017

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, http://orise.orau.gov/sepreview/msipp/Approved%20MSI%20School%20List%202017.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:

- Be a current undergraduate or graduate student in Biology, Health Science or Industrial Hygiene, or related discipline.

It is desirable for the candidate to have:

- Skills in Physiology, Mathematics, and knowledge of computer software packages (Microsoft).

Eligibility

- **Citizenship:** U.S. Citizen Only

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Requirements

- **Degree:** Currently pursuing a Bachelor's Degree or Master's Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)
  - **Mathematics and Statistics** (10 👁)

Affirmation

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).