

Opportunity Title: Development of Software for Consumer Travel Analysis

Opportunity Reference Code: DOE-MSIPP-18-2-ANL

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
- 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 information, contact Lisa Reed at lisareed@anl.gov.

Application Deadline 1/12/2018 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: This project is to help Argonne's ongoing analytical support of the Department of Energy's Clean Cities Program. The Clean Cities Program develops government and industry local coalitions to strategically deploy alternative fuel vehicles and other technologies that reduce petroleum consumption. Further information about Clean Cities is available at <http://www1.eere.energy.gov/cleancities/>. Specifically, the intern will work on collecting data for the ATRAVEL tool to allow consumers to examine travel and ownership costs of a private vehicle vs other travel options such as transit, rideshare, car share, and bicycle. The tool will also look at the fuel, criteria air pollutant emissions, and greenhouse gas emissions implications of these different travel smart mobility options. This work will provide a better understanding of the advantages and disadvantages of different travel modes in different situations. The intern will be collecting and analyzing relevant information for key inputs for each travel option such



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as ownership and operating costs, empty mileage, fuel consumption, criteria air pollutant emissions, and greenhouse gas emissions. The intern will also help in the design and layout of the tool. This work will build off the AFLEET Tool, which is available at: <http://greet.es.anl.gov/afleet>.

Location: This internship will be located at Argonne 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 12, 2018

Expected Start Date: The program is 10 weeks in duration, starting May 21, 2018. Start date is flexible based on laboratory and candidate availability.

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/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:

- Be a current undergraduate or graduate student pursuing a degree in computer science, or related field.

Desired Knowledge, Skills, Work Experience, and Education


It is desirable for the candidate to have:

- Programming (client-side and server-side languages).

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):**
 - **Computer, Information, and Data Sciences** ([16](#) )

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).