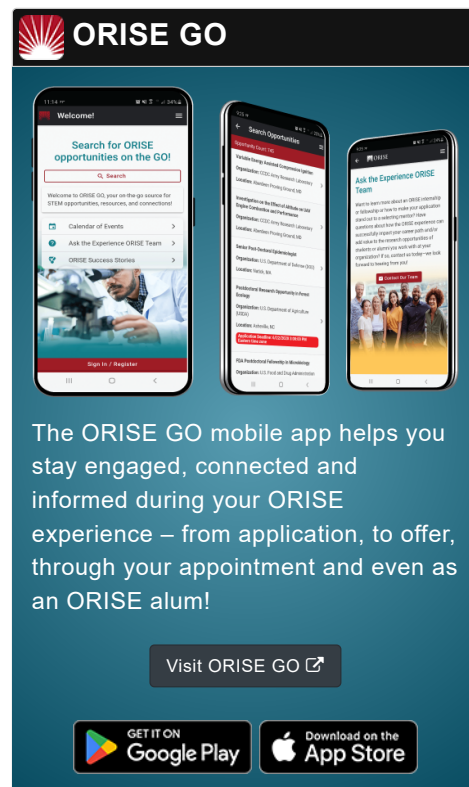


Opportunity Title: Improving a Coincidence Detector System
Opportunity Reference Code: DOE-MSIPP-18-7-SRNL

Organization	U.S. Department of Energy (DOE)
Reference Code	DOE-MSIPP-18-7-SRNL
How to Apply	<p>A complete application must include the following to be considered:</p> <ul style="list-style-type: none"> • Completion of all required fields in the application and successful application submission • Undergraduate or graduate transcripts as appropriate • Two recommendations <p>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.</p> <p>For technical questions, please contact Vivian Cato at vivian.cato@srnl.doe.gov.</p>
Application Deadline	1/12/2018 11:59:00 PM Eastern Time Zone
Description	<p>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.</p> <p>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.</p> <p>Minority Serving Institutions are institutions of higher education enrolling populations with significant percentages of undergraduate minority students.</p> <p>Project: The project will involve investigating, implementing, and evaluating improvements to a coincidence detector system with scientists at SRNL. Potential improvements could include upgrading the system from double to triple coincidence and implementing correction algorithms. The intern will have the opportunity to gain experience with both software and hardware development for nuclear science applications.</p> <p>Location: This internship will be located at Savannah River National Lab.</p>

The ORISE GO mobile app helps you stay engaged, connected and informed during your ORISE experience – from application, to offer, through your appointment and even as an ORISE alum!

Visit ORISE GO

GET IT ON Google Play | Download on the App Store

Opportunity Title: Improving a Coincidence Detector System

Opportunity Reference Code: DOE-MSIPP-18-7-SRNL

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.ornl.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, engineering, mathematics, chemistry, physics, or related field.
- Intern's educational background should include course work in a stem field like chemistry, physics, engineering, or something similar.
- Intern should have completed advanced laboratory coursework involving the use of instrumentation or electronics.

Desired Knowledge, Skills, Work Experience, and Education

Opportunity Title: Improving a Coincidence Detector System

Opportunity Reference Code: DOE-MSIPP-18-7-SRNL

It is desirable for the candidate to have:

- Experience with detection instruments in advanced chemistry or physics laboratory courses involving analyzing samples and reviewing data.
- Experience in a C based programming language.

**Eligibility
Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Currently pursuing a Bachelor's Degree or Master's Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (12 👁)
 - **Computer, Information, and Data Sciences** (16 👁)
 - **Engineering** (27 👁)
 - **Mathematics and Statistics** (10 👁)
 - **Physics** (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).