

**Opportunity Title:** Computational Modeling and Analysis Engineering of Nuclear Material Storage and Waste Facilities

**Opportunity Reference Code:** DOE-MSIPP-16-32-SRNL



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

**Reference Code** DOE-MSIPP-16-32-SRNL

**How to Apply** A complete application must include the following to be considered:

- Completion of all required fields in the application
- Undergraduate transcripts
- One Recommendation (minimum)

If you have questions, send an email to Elizabeth Nelson at [Elizabeth.Nelson@ornl.org](mailto:Elizabeth.Nelson@ornl.org) . Please include the reference code for this opportunity in your email.

**Application Deadline** 3/16/2016 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.

Environmental Modeling Organization is looking for a graduate (or senior year) full-time student for a 2016 Summer Internship position in Savannah River National Laboratory (SRNL). The position will encompass the computational and data analysis of a fluid flow and heat transfer technology for the nuclear material storage and waste processing facilities at Savannah River Site (SRS). The candidate will work and collaborate extensively with experienced researchers working on both experimental and computational investigations during Summer time, typically, the May through August period.

**Qualifications** The successful candidate will be an undergraduate senior or graduate student studying mechanical, nuclear, or chemical

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engineering, with a background in thermal transport, fluid flow, and heat transfer. Previous experience with computational programs such as Computational Fluid Dynamics and ANSYS-FLUENT software is strongly preferred.




**Eligibility Requirements:**

1. Be currently enrolled as a full-time undergraduate or graduate student at an accredited Minority Serving Institution \*see criteria for Minority Serving Institutions here <http://srnl.doe.gov/msipp/internships.htm>
2. Be working towards a science, technology, engineering, or mathematics (STEM) degree
3. Have an undergraduate cumulative minimum Grade Point Average (GPA) of 3.0 on a 4.0 scale
4. Be a United States citizen
5. 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.
6. Reference must be received by March 6, 2016 at 11:59 PM ET

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:  
[www.orise.orau.gov/MSIPP](http://www.orise.orau.gov/MSIPP)

**Eligibility  
Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Bachelor's Degree or Master's Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (12 )
  - **Computer, Information, and Data Sciences** (16 )
  - **Earth and Geosciences** (21 )
  - **Engineering** (27 )
  - **Environmental and Marine Sciences** (14 )
  - **Life Health and Medical Sciences** (45 )
  - **Mathematics and Statistics** (10 )
  - **Physics** (16 )
  - **Science & Engineering-related** (1 )

**Affirmation**

I certify that I am pursuing or have completed coursework towards a degree in science, technology, engineering, mathematics, or a related field.