

Opportunity Title: ORNL Radiochemical Processing Laboratory Technology

Associate

Opportunity Reference Code: ORNL19-LabTech-NSITD

Organization Oak Ridge National Laboratory (ORNL)

Reference Code ORNL19-LabTech-NSITD

Description The Medical, Industrial, and Research Isotope Group (MIRIG) within the Nuclear Security and Isotope Technology Division (NSITD), Nuclear Science and Engineering Directorate (NESD) at Oak Ridge National Laboratory (ORNL), is seeking applications for one or more Radiochemical Laboratory Technology Associate positions.

The MIRIG uses the unique ORNL capabilities, including the High Flux Isotope Reactor (HFIR) and Radiochemical Engineering Development Center (REDC), to produce, research, and supply isotopes in support of the Department of Energy (DOE) mission and for other government agencies and private organizations as requested through DOE. This work applies radiochemistry, chemical engineering, mechanical engineering, and nuclear engineering principles to the processing and handling of nuclear and other hazardous materials. Key characteristics of the MIRIG include the unique application of hands-on radiochemical processing research and development, remote operation, and computational modeling needed to support production. The work conducted by the group involves the use of materials ranging from non-radioactive chemicals and equipment to highly radioactive materials, use of standard or highly specialized laboratory equipment, and work performance either on the bench top, in fume hoods, glove boxes, or heavily shielded hot cell facilities.

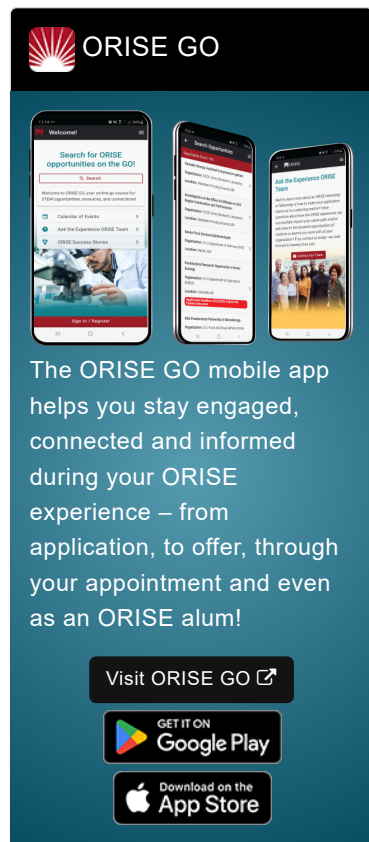
Major Duties/Responsibilities

The Laboratory Technology Associate will assist technical staff and senior technicians with the day-to-day operations of chemical and radiochemical laboratories and assist with glovebox and fume hood operations. Primary duties will be associated with the recovery and purification of californium and curium from aged Cf-252 sources. Responsibilities will include preparing chemical solutions, running separation procedures, making observations, collecting data, maintaining clear and complete records, and coordinating radioactive and hazardous waste disposal. The Associate will also assist with other projects and duties as assigned. All work is to be conducted in a safe and effective manner and in compliance with all rules, regulations, and requirements for work within a hazard category nuclear facility.

Qualifications Candidates should have experience working in a radiochemical laboratory, specifically related to glove box operations and chemical separation.


Additionally candidates should have a high school degree with appropriate experience or an associate's degree or equivalent in chemistry, engineering, or a related science. Self-motivation, the ability to work in a team, and demonstrated safe work ethics are essential.


The ORNL Laboratory Technology Associate Program is administered by Oak Ridge Associated Universities through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and




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Education (ORISE).

- Eligibility**
- Requirements**
- **Citizenship:** U.S. Citizen Only
 - **Degree:** Any degree .
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** ([1](#)👁)
 - **Engineering** ([1](#)👁)
 - **Age:** Must be 18 years of age

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