

**Radiochemist**  
**University of Missouri (Columbia), Columbia, MO**  
**Job ID: 57382**

**Hiring Department**

University of Missouri Research Reactor

**Job Description**

The University of Missouri Research Reactor (MURR) is seeking a Radiochemist to join our Innovative Development & Translation (ID&T) division. The ID&T division at MURR focuses on advancing radioisotope production methodologies with an emphasis on their translatability into current Good Manufacturing Practice (cGMP) standards. Core objectives of the ID&T division include: first, developing innovative and scalable radioisotope production techniques; second, optimizing and continuously improving existing isotope production lines at MURR to address any emergent issues; third, providing support to MURR's research groups through a blend of technical expertise, collaborative projects, and tailored solutions; and fourth, evaluating new opportunities and managing new projects that will become the foundation of tomorrow's growth and success.

This position will report to the Developmental Radiochemistry Manager and will be responsible for the development of radioisotope processing methods with a focus on the pharmaceutical development for the manufacturing of new cGMP medical radioisotopes that will be utilized as Active Pharmaceutical Ingredients (APIs) in radiopharmaceutical formulations.

**Key Duties Performed by This Position Will Include**

- Design, implement, and optimize radioisotope production methods using the University of Missouri Research Reactor.
- Lead radioisotope process development projects of moderate to high complexity and manage resources accordingly.
- Develop novel radioisotope manufacturing methodologies that are suitable for translation into current Good Manufacturing Practices (cGMP) radiopharmaceutical production processes.
- Perform radioanalytical tests and develop new quality control methods, including (radio)chromatography techniques (HPLC, IC, TLC).
- Collaborate with the members of other groups (i.e., Change Control & Translation, Developmental Engineering) within the Innovative Development & Translation division to understand the specific needs of each radioisotope development project.
- Lead or assist in developing SOPs and relevant technical documentation required for radioisotope process development and quality control methodologies.
- Perform research-grade radioisotope processing to produce high-quality radioisotope precursors to support researchers in MU and other research facilities across the US.
- Lead or assist in developing investigations and performing analyses to resolve issues that may arise in existing radiochemical production methodologies at MURR.

- Conduct detailed literature reviews to stay abreast of the latest advancements in isotope production, radiochemistry, radioisotope, and radiopharmaceutical development.
- Ensure compliance with all safety protocols and regulations related to radioisotope handling and production.
- Train and supervise staff in radiochemical procedures and safety protocols.

Successful candidates will be persuasive communicators with exceptional organizational and time management skills. They must demonstrate the following durable skills: leadership, character, collaboration, communication, creativity, critical thinking, mindfulness, growth mindset, and fortitude. Additionally, customer service, confidentiality, integrity, and a commitment to university values in their activities.

Must be available for reliable and consistent onsite work.

### **Shift**

Monday through Friday, 8AM to 5PM

### **Minimum Qualifications**

A Master's degree in a related/ relevant area and at least 4 years of experience, from which comparable knowledge and skills can be acquired, is necessary.

### **Preferred Qualifications**

- Ph.D. in Radiochemistry, Nuclear Chemistry, Radiopharmacy, Analytical Chemistry, or related field.
- Prior experience working in a nuclear-related field is preferred.
- Experience in current Good Manufacturing Practices (cGMP) in medical isotope or/and radiopharmaceutical manufacturing is desirable.
- Strong understanding of nuclear reactions and radiation safety.
- Proven experience in radioisotope manufacturing and associated methods.
- Demonstrated commitment to safety in a laboratory setting.

### **Interested in this opportunity?**

Learn more [here](#).