

Radiochemistry Inorganic Postdoctoral Researcher

The Burns Research Group currently has a postdoc opening for a highly motivated inorganic or radiochemist, preferably with At-211 or other alpha-emitter chemistry experience. Funding for this position is provided by the U.S. Department of Energy's Office of Science, through the Isotope Program. The successful candidate will contribute to research studying the fundamental chemistry of At-211 binding and complexation, so insights gained can be applied to developments in separations, purifications, and chelating agents for this interesting and important element.

Relevant Skills and Experience

- This position requires the successful candidate to be an adept, hands-on chemist with experience in inorganic, analytical, or radiochemistry, preferably with experience in short-lived radioisotopes.
- A fundamental understanding of metal coordination complexes in solution and solid phases utilization towards the application of separation processes such as solvent extraction, ion exchange, and crystallization is also desirable.
- The ability to work in a team-oriented, interdisciplinary environment that embraces change, risk, and flexibility is needed.
- This individual must be capable of handling multiple projects/tasks at the same time.
- A demonstrated ability to work independently and within a team with a sense of urgency for timelines is needed.
- The successful candidate must have excellent verbal and written communication skills.
- A passion and enthusiasm for innovation will be an asset.
- Proven problem-solving skills and good interpersonal relationships and people skills will be needed.

Essential duties:

- Design and carry out independent research focused on At-211 binding and complexation.
- Obtain and analyze data from a variety of techniques including radioTLC, gamma spectroscopy, LSC, etc.
- Handle radioactive materials in a safe manner.
- Keeps meticulous records in laboratory notebook and online data management systems and initial analysis of laboratory results.
- Write technical reports of experimental data to meet the sponsors' requirements and for manuscripts to be submitted for peer-reviewed journal article publication.
- Shares responsibility with other lab members for compliance with University safety procedures and maintaining common supplies and instruments.
- Conduct literature searches related to research projects.

Required qualifications:

- Ph.D. in Chemistry, preferably with experience in inorganic chemistry or radiochemistry.
- The ability to work in the US
- Excellent communication skills.
- High-quality, peer-reviewed publications

Preferred Skills/Desirable Qualifications:

- Experience with radioactive materials
- Experience with short-lived radioisotopes
- Experience with radioTLC and HPLC

If you are interested, please submit a Cover Letter, CV, and Research Statement to burnsjon@uab.edu