



## **Post-doctoral Research Associate**

### **Shafer Radiochemistry Research Group**

**Job Description:** Post-doctoral researcher sought for full-time position at the Colorado School of Mines, in collaboration with our research sponsor. The project would focus on molten salt and materials chemistry of uranium, zirconium and lithium. Electrochemistry, materials science, molten salt and/or glovebox experience preferred. Ph.D. Required. Our group has a demonstrated history of exciting research in areas of nuclear security, materials management and fundamental f-element science. Publications can be found here: <https://www.shafer-radiochemistry.com/publications/> and more information on the group can be found here: <https://www.shafer-radiochemistry.com/>

Responsibilities include: designing experiments and process flow; examination of solution effects in plating chemistry using electrochemical and spectroscopic methods electroplating; material characterization through SEM and other forms of microscopy, preparing biweekly progress update presentations and quarterly updates to research sponsor; collaborating effectively with sponsor partners through sample exchange, co-development of processes, and materials characterization; providing mentorship to a graduate student and undergraduate student on the project; maintaining excellent lab safety and a diverse, accepting work environment; and assisting our Assistant Research Professor with research group management (total of 10 graduate students, 1 undergraduate student, 1 technician).

**How to Apply:** Applications should email Professor Shafer ([jshafer@mines.edu](mailto:jshafer@mines.edu)) with a CV, references and cover letter describing relevant skills and availability date (required). Desired start date is October 1, 2019, but flexibility exists regarding this. References will not be contacted until later in the selection process and you will be informed before that contact is made.

**Total Rewards:** Starting salary will be determined by the qualifications of the selected applicant balanced with project budget availability and available market information. Mines provides an attractive benefits package including fully paid health and dental insurance. Part of Mines' mission is to create a family-friendly environment supported through our dependent tuition benefits, parental leave benefits, and dependent care assistance plan, as well as in special events, camps, and programming. For more information visit: [family.mines.edu](http://family.mines.edu)

**About us:** The Colorado School of Mines is located in picturesque Golden, in the foothills of the Rockies, 15 miles west of Denver and 20 miles south of Boulder. The Shafer Research Group focuses on both the fundamental and applied aspects of actinide science



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and related technologies. Dr. Shafer's group is a high-quality, well-funded research program (\$750,000 in annual research awards) with support from DTRA, DOE-NNSA, DOE-SC, DHS, and NSF. The research group is highly interdisciplinary and matriculates' students with both Applied Chemistry and Nuclear Engineering graduate degrees.

**Application close date:** Open until filled