

Job Title: Postdoctoral Researcher or Research Engineer in Characterization of Mechanisms Associated with In Situ Recovery Method for Uranium Recovery

Job Summary: The University of Pau in collaboration with Orano is seeking a postdoctoral researcher to characterize the mechanisms associated with the in situ recovery method for uranium recovery. The candidate will be responsible for characterizing the chemical and physical processes using advanced imaging techniques such as X-ray tomography and ICPMS analysis.

Responsibilities:

- Conduct laboratory experiments to characterize the mechanisms associated with the in situ recovery method for uranium recovery;
- Implement and develop advanced imaging techniques such as X-ray tomography to monitor the distribution and mobility of uranium;
- Use ICPMS analysis techniques to measure uranium concentrations in samples;
- Interpret the results obtained and work with our collaborators concerning the numerical models to predict recovery performance;
- Collaborate with the research and development team at Orano to integrate the results into recovery processes.

Requirements:

- Ph.D. in physics, geology, chemistry, or a related field;
- Experience in physics of porous media characterizing the mechanisms associated with the in-situ recovery method for uranium recovery or applied to other applications
- Strong experience in advanced imaging techniques such as X-ray tomography and potentially in ICPMS analysis;
- Knowledge of safety and environmental standards in the mining industry;
- Good communication and collaboration skills;
- Ability to work in a multidisciplinary team.

We propose a 14 months fixed-term contract, with the possibility of renewal depending on performance. We also propose competitive remuneration, and a stimulating and dynamic work environment in partnership with academic research groups in Ecole des Mines de Paris and Institut de Mécanique des Fluides de Toulouse (IMFT).

If you are interested in this opportunity and meet the requirements above, please send us your CV, a cover letter, and a list of references to patrice.creux@univ-pau.fr