



Moltex Energy Job Description

Job title: Chemist

Job location: Saint John, Canada

Assignment: Permanent, full-time

Job purpose:

Plan and lead research programs focused on understanding the treatment of nuclear waste and chemical behaviour of molten fuel salts, to support design activities and verify design requirements in both static and dynamic environments.

Duties and tasks:

- Develop and continuously improve the research program to verify and establish chemical processes.
- Prepare and characterize surrogate and nuclear fuel salts.
- Perform experiments to develop used nuclear fuel recycling processes.
- Establish suitable facilities for molten salt chemistry experiments.
- Ensure radioactive materials handling meets safety requirements.
- Train and supervise interns in the handling of molten salts and use of common analysis techniques such as electrochemistry.
- Document findings in a structured manner and report key findings to relevant stakeholders.

Skills, qualifications and experience:

Essential:

- Experience using electrochemical methods to study chemical behavior.
- Experience handling and purifying molten salts.
- Experience with chemical analysis techniques such as UV-vis, IR or Raman spectroscopy, ICP-OES/MS and X-ray diffraction.

Desired:

- PhD in molten salt chemistry or related field.
- Experience handling radioactive materials.



Behavioural skills and personality:

The ideal candidate will be:

- A strong problem-solver.
- An effective communicator.
- Someone who takes initiative and is delivery-focused.
- Someone with a proven ability to collaborate in a multidisciplinary environment.
- Interested in becoming an industry recognized leader in SSR chemistry.

Remuneration:

Negotiable based on experience.