



## Moltex Energy Job Description

**Job title:** Lead Chemical/Process Engineer

**Job location:** Saint John, Canada preferred; will consider applicants based in Toronto, Canada or Warwickshire, United Kingdom

**Job purpose:**

Lead the chemical/process engineering and design for the Moltex's WASTE To Stable Salt (WATSS) fuel process and Stable Salt Reactor development.

**Responsibilities:**

Development of the chemical separation process and the integration of the systems and components of the nuclear fuel conversion facility, as well as supporting the reactor design team as needed.

The job holder will report to the VP Engineering and will work closely with other senior managers and their teams. They will also work closely with the Project Director and the project management teams.

**Duties and tasks:**

- Develop the chemical processes to achieve the WATSS concept at an industrial scale based on fundamental and applied research.
- Support the reactor Project Director with chemical engineering expertise as required.
- Establish design criteria for the processing facility based on regulatory and business requirements.
- Develop system description and component specifications.
- Define the interfaces between systems and components.
- Integrate required technologies into the processing facility.
- Evaluate the feasibility of the system or component designs that are delivered by suppliers.
- Perform hazard analysis to identify internal and external hazards of the facility.
- Lead a team of engineers and scientists to complete the chemical/process design.
- Support the VP Engineering in the recruitment of other engineers and scientists.
- Ensure that all work is delivered in accordance with the Management System
- Develop and agree schedules and budgets for all engineering and design tasks.

- Manage the delivery of chemical/process engineering and design tasks in accordance with the agreed schedule and budget, and provide regular progress reporting on progress.
- Technical assessment and management of engineering service companies, manufacturers and research teams.
- Technical interface with regulators, and stakeholders.

**Skills, qualifications and experience:****Essential:**

- Degree qualified chemical/process engineer, or similar engineering disciplines.
- 5 years plus experience in chemical engineering or process engineering.
- Experience in facility or process design.

**Desirable:**

- Knowledge of radiochemistry or pyrochemistry.
- Experience in applying industrial standards and codes.
- Experience of managing suppliers.
- Master's or higher degree in chemical engineering or similar engineering disciplines.

**Behavioural skills and personality:**

The company's mission is to bring SSRs to market as quickly as possible. To achieve this the role holder will need to be:

- Delivery and cost focused as well as being technically strong
- A good problem solver who is driven to find simple solutions and not to over complicate engineering and design work.
- An excellent team worker who will integrate well with other parts of the engineering and design team to ensure progress of reactor designs as a whole as well the chemistry
- A good communicator who can explain, debate, and justify the SSR chemistry to a range of stakeholders with differing technical knowledge both orally and in writing.
- An adaptable individual who will be comfortable in a rapidly growing and changing company.

**Remuneration:**

Negotiable based on experience.