



Moltex Energy Job Description

Job title: Mechanical Engineer

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

Job purpose:

To lead the mechanical engineering and detailed design of Moltex's stable salt reactor (SSR) and fuel facility (WATSS).

Reporting and working relationships:

The job holder will report to the Lead Mechanical Engineer, and will work closely with other engineers and their teams. They will also work closely with the project management teams.

Responsibilities:

Delivery of mechanical engineering and design packages to progress Moltex's concept designs for SSRs and WATSS into a working reactor.

Duties and tasks:

- Contribute to the development of SSR and WATSS concept design configuration through the engineering and detailed design phase
- Work in accordance with the Management System.
- Develop and agree schedules and budgets for assigned engineering and design tasks.
- Manage the delivery of assigned mechanical engineering and design tasks in accordance with the agreed schedule and budget, and provide regular progress reporting on progress.
- Technical assessment and management of subcontractors.

Skills, qualifications and experience:

Essential:

- Degree qualified professional engineer, or similar.
- Experience of front-end design of complex high integrity mechanical equipment and plant in a highly regulated industry.
- Good understanding of the principles of solid mechanics, thermodynamics and fluid mechanics.
- Wide knowledge, and understanding of applicability of, engineering design codes & standards for structures, and fluid / pressure systems.



Desirable:

- Knowledge of the principles of nuclear reactor design
- Familiarity with Generation IV nuclear reactor concepts
- Experience in the use and application of FEA software packages
- Experience in the use and application of CFD software packages

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 team and project team to ensure progress of the reactor design as a whole.
- An adaptable individual who will be comfortable in a rapidly growing and changing company.

Remuneration:

Negotiable based on experience.