Moltex Energy Job Description

Job title: Systems Engineering Lead

Job location: Saint John, Canada or Toronto, Canada (If based in Toronto, substantial travel to Saint John will be required.)

Assignment: Permanent, full-time

Position summary:

Provides expert technical oversight, direction, and consultation in one or more areas for the design, R&D and implementation of first of a kind (FOAK) Stable Salt Reactor – Wasteburner (SSR-W):

- System Architecture and Interfaces
- Requirements Management
    a. Functional/Design Requirements,
    b. Open Design Items,
    c. Technical Risks
- Plant Layout
- System Modelling
- Concept of Operation

Responsibilities:

- Responsible for Configuration Management and ensuring interfaces across the design are effectively managed.
- Leads development of specifications and/or Interface Control Document development
- Recommends system design alterations and enhancements to improve quality of Structures, Systems and Components (SSCs) and/or procedures from an assembly, transportation, construction, operations, maintenance, or decommissioning considerations
- May manage a team of system engineers in the future
- Leads reviews and presentations for internal company design reviews and customer design reviews in regard to configurations and related structures, systems, and components

- Develops R&D technical scope for SSCs improvements, optimization and cost reduction
- Performs trade studies (optioneering studies)
- Any other assigned duties

Competencies and skills:

- Self-motivated, self-starter
- Ability to work well in a team environment
- Ability to make decisions based on sound engineering calculations and judgment
- Good verbal and written communication skills
- Ability to multi-task with exceptional organizational skills
- Ability to function in a dynamic environment with changing requirements and priorities
- Ability to lead technical activities and provide guidance to lesser experienced engineering and technical team members
- Ability to interpret customer needs and to develop system requirements

Qualifications:

- Five to ten years of professional experience in Thermo-Dynamic, Mechanical or Systems design, analysis, or test engineering discipline
- Bachelor's Degree or other advanced degree(s) in Mechanical Engineering, Materials, Chemical Engineering, Industrial Engineering

Experience and knowledge:

- Technical proficiency in the assigned area/discipline – performing design, analysis, development, research, testing, and/or Validation & Verification activities
- Two to three years as a lead engineer, providing direction to a team of junior designer, engineers, and analysts in the development of complex systems
- Knowledge with advanced simulation, requirements and layout tools
- Able to effectively communicate results and analytical findings verbally and in writing

Renumeration:

- $100,000-$130,000 CAD, flexible depending on experience
- 50% comprehensive medical plan
- 20 days vacation