

# Position Description – System Engineering Lead/Manager



Number	Revision
FORM-02-009	00

Reports to: Engineering Director

Number of Incumbent(s): 1

## 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) SSR-W (Stable Salt Reactor – Wasteburner):

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

This position can be in Toronto, Ontario or Saint John, New Brunswick, Canada. Extensive travel to Saint John is required.

## 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

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- 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
- Ability to interpret test results and develop system usage/integration plans

### 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/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

### DURATION

- Permanent / Full Time

### REMUNERATION

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

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