

HVAC Engineer

Job Summary

This position is required to enable Engineering to meet existing stakeholder commitments for the provision of engineering design documents and drawings in the areas of HVAC, conventional pressure boundary, and building services. The HVAC Engineer is a member of a multi-disciplinary group providing integrated engineering services including analysis and detailed design of new or modified systems for nuclear and non-nuclear facilities and decommissioning projects at the Whiteshell Laboratories (WL) site. The incumbent will contribute through the development of conceptual, preliminary, and detailed designs of structural components, pressure boundary systems, HVAC, and building services. Building services would include drinking water, sanitary sewer, plumbing, compressed air, and steam and condensate systems.

The HVAC Engineer performs all duties in accordance with established health and safety regulations/guidelines, standards, policies and procedures (e.g., utilizing personal protective equipment as per safe work procedures). The mechanical / HVAC Engineer notifies their manager or supervisor of all occurrences, injuries, illnesses or safety and health concerns which are likely to harm themselves, their co-workers or any other on the premises in a timely manner and in accordance with established reporting requirements.

Qualifications

Education

- Bachelor's Degree in Mechanical engineering or applied science from a university of recognized standing.

Experience

- Minimum of ten years engineering experience.
- Eligible for membership in a provincial engineering association (e.g., APEGM).

Abilities and Skills

The incumbent should have:

- More than ten years of experience, with in-depth knowledge in the design and analysis of HVAC and building services. Including experience with HVAC codes and standards, and nuclear ventilation systems.

- Familiarity with the analysis and design of conventional pressure boundary systems. Including familiarity with CSA B51, ASME Boiler and Pressure Vessel Codes and ASME B31 piping codes.
- Supervisory and project management experience is considered an asset.
- Knowledge of engineering codes and standards used in design, construction and commissioning processes.
- Ability to work to tight timelines and support the Whiteshell site wide decommissioning plan and schedule.
- Excellent computer skills, including document preparation and an understanding of CADD, is required.
- Well-developed verbal and written communication skills: Able to persuade and influence others; able to build consensus.
- Excellent integrity, respect of confidences, open, credible and sincere.
- Effective at building relationships. Strong interpersonal skills such as ability to get along well with peers and management. A very good team player.
- A questioning attitude and aptitude to learn about nuclear decommissioning strategies and techniques.
- Positive attitude with respect to nuclear regulatory environment and required work planning and execution practices.
- Leadership skills and attitude. Desire to help out where needed, vision to foresee future requirements/opportunities, good intuition, imagination, and judgement. Ability to coach peers, give constructive feedback and have the capability to empower others.
- Demonstrated efficient organization, planning, time management, detail orientation and prioritization.
- Able to seek common goals, partner and collaborate with project teams and operational teams.
- Confidence to interact with managers and directors to solicit advice and to promote implementation strategies.
- Initiative and judgement to organize and maintain flow of work and accuracy of records.
- Highly motivated and able to work with minimal supervision.
- Able to work extended hours and off normal work shifts to support project needs.

Functions and Responsibilities

Functions and responsibilities include but are not limited to the following:

- Assist in developing and accepting responsibility for project work packages involving design, tendering, construction, commissioning, and facility decommissioning activities.
- Support other areas of engineering for the preparation of design documentation, including customer proposals, work plans, schedules and estimates.
- Engineering support during construction, installation and commissioning project phases.
- Supervision, coaching and mentoring of junior engineers/interns technical and other project staff.
- Perform engineering calculations.
- Support the design and layout for structures, HVAC, building services and mechanical systems for nuclear and non-nuclear facilities.

- Preparation of design documents (Design requirements, design descriptions, and manuals), technical specifications and tendering documents, standards and procedures for design of various HVAC, building services and mechanical components and systems.
- Review of technical documents and drawings prepared by other Engineers and Designers.
- Classification, code selection, design analysis and registration of pressurized systems and components.
- Conduct field walk downs to verify design parameters, construction progress and operational readiness.
- Provide well developed communication skills, both verbal and written.
- Represent Canadian Nuclear Laboratories (CNL) in a professional capacity and liaise with external design consultants and contractors.
- Maintains confidentiality in all matters.

Please visit our website at www.cnl.ca for more information or to apply

The role is based out of CNL's Whiteshell location, which will be the designated workplace. CNL may require the candidate to travel from time to time, as necessary.

CNL is committed to providing an atmosphere free from barriers that promote equity, diversity and inclusion in achieving our mission. CNL welcomes and celebrates employees, stakeholders and partners of all racial, cultural, and ethnic identities.

CNL also supports a workplace environment and a corporate culture built on our Core Values: Respect, Teamwork, Accountability, Safety, Integrity and Excellence, which encourage equitable employment practices and career prospects inclusive of accommodations for all employees.

CNL is committed to being an equal opportunity employer. If you require accommodation measures during any phase of the hiring process, please inform the Talent Acquisition Advisor with whom you are in contact. All information received in relation to accommodation requests will be kept confidential.

CNL respectfully recognizes and acknowledges that the Whiteshell Site is located within the traditional territory of many Indigenous Nations, including those within Treaty 1, 3, and 5, and the homeland of the Red River Métis. CNL is thankful to have the opportunity to work on these traditionally and culturally significant lands and waterways.