



As Canada's premier nuclear science and technology (S&T) organization Canadian Nuclear Laboratories (CNL) serves the nation as an enabler of business innovation and technology transfer. And, we foster the development of highly-qualified people for the knowledge economy to come.

The Whiteshell Closure Project (WCP) is an initiative under Canadian Nuclear Laboratories whose focus is to decommission the site. The Project mandate encompasses the entire Whiteshell Laboratories (WL) Site, including nuclear equipment and systems, buildings and plant infrastructure, services, waste management facilities and affected lands. The Project scope includes all elements necessary to complete by 2024, a major remediation project on a licensed nuclear site, including strategic planning, resourcing, project annual budgeting and planning, nuclear facility operation, nuclear facility decommissioning, remediation of affected lands, environmental monitoring, site services, application of nuclear programs and business services as required.

## **Fuel Management Specialist**

### **INTRO**

The Fuel Management Specialist is a challenging new position in the growing WL Waste Management division.

The Fuel Management Specialist will be the key subject-matter expert for fuel management at WL. This individual will support three key projects: the Transportation of Radioactive Waste Project (Intermediate Level Waste (ILW) and High Level Waste (HLW) Transportation Operations), the Waste Management Area (WMA) Decommissioning Project (Standpipes and Intermediate Level Waste Bunker Remediation) and the Concrete Canister Storage Facility Decommissioning Project.

The Fuel Management Specialist will be expected to develop practical, efficient, and safe strategies for managing the WL nuclear fuel liabilities. He/she will also be expected to work closely with the CRL Used Fuel and Highly Enriched Uranium (HEU) Program team to ensure the entire lifecycle of fuel management, from retrieval to transportation to storage, is addressed in an integrated manner across the entire company

### **DUTIES**

- Serve as the lead technical resource for all aspects of nuclear fuel management at Whiteshell Laboratories (WL).
- Assist in the identification, evaluation, selection and commissioning of fuel packaging and handling equipment.
- Perform fuel source term evaluations and calculations.
- Prepare technical documentation including design requirements, design descriptions, analysis reports, operating procedures and safe work documentation.
- Provide technical support and leadership for the retrieval, inspection, conditioning and repackaging of used fuel from the Concrete Canister Storage Facility.

- Provide technical support and leadership for all aspects of the High-Level Waste Transportation Operations.
- Provide technical support for the retrieval, segregation, nuclear materials accounting, conditioning, and packaging of fuel and other high-hazard wastes from the WL Standpipes.
- Provide in-the-field support to oversee fuel handling operations during decommissioning activities.
- Identify and assess options to determine the preferred characterization methods for High and Intermediate-Level Wastes, including the selection and procurement of characterization/assay technologies.
- Work collaboratively with Project Managers, Project Engineers/Professionals, Waste Management Specialists, Waste Characterization Officers, Health Physicists and various other decommissioning staff to coordinate fuel management activities.
- Maintain cross-functional knowledge spanning the various specialist areas associated with CNL's Waste Management Program, including waste storage and disposal options and facilities; waste minimization and reduction practices; international practices for waste management; and management of radiological and hazardous wastes

#### QUALIFICATIONS

- Bachelor of Science (Honours) degree in Nuclear Engineering, Health Physics, Mathematics, or Physical Sciences, plus at least five years' experience working at a nuclear facility. A Master's degree in one of the above fields is a key asset.
- Knowledge of the entire nuclear fuel lifecycle.
- Knowledge of nuclear fuel characteristics and properties (particularly CANDU and/or experimental fuels).
- Knowledge of criticality safety analysis requirements.
- Demonstrated experience in modeling and simulations related to nuclear engineering, radiation transport calculations, source term calculations, nuclear materials accounting calculations and fuel heat generation and fuel decay calculations.
- Demonstrated ability to work well in the field within a multi-disciplinary team.
- Excellent oral and written communication skills.
- Proven ability to work under pressure, manage priorities and understand regulatory requirements.
- Understanding of project management principles is an asset.

**Visit our website at [www.cnl.ca/positive](http://www.cnl.ca/positive) for more information or to apply**

CNL has an Employment Equity Program and encourages applications from women, Aboriginal Peoples, visible minorities and persons with disabilities.

We thank all applicants for their interest, but only candidates selected for an interview will be contacted.