

Are you looking for a role that will challenge you?

Would you like to make a difference in the Environment?

If you answered yes, our Whiteshell Laboratories (WL) site located near Pinawa, Manitoba is looking for a **Waste Characterization Specialist (WCS)**. WL is required to certify the composition of all its waste and how it will be dispositioned through re-use, recycling, storage or disposal. Do you want to be in a role where you strategize the use of specialized instruments, techniques and development of waste characterization plans? Does the important work appeal to you? If you answered yes, then this may be the job for you!

Canadian Nuclear Laboratories (CNL) employees perform all duties in accordance with established health and safety and regulations/guidelines, policies and procedures (i.e. utilizing personal protective equipment as per safe work procedures). Notifying management 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.

What will you be doing?

- Developing new waste characterization initiatives, providing oversight to established techniques/operations and continually seeking alternatives to improve the way Waste Services plans and executes waste characterization while meeting customer criteria and company/regulatory requirements.
- Staying informed of the latest technological and scientific developments in the field and making recommendations related to the improvement of Waste Characterization Processes to ensure CNL offers an effective and efficient service.
- Working effectively with decommissioning teams and various other organizations, including Environmental Protection, Radiation Protection, Health Physics, General Services, Procurement and Facility Operations.
- Assisting projects with scheduling and coordinating resources.
- Providing technical guidance to the team of Technical and Professional staff on characterization methods and processes, efficiencies, new methodologies, fingerprint application, and general knowledge development.
- Investigating unexpected results and interpreting the complex data using past experience and comparative situations.
- Making recommendations and providing guidance that are technically accurate and feasible.
- Authoring, revising and reviewing characterization/operational documents, (e.g., Data Quality Objectives, Waste Characterization Plans, Characterization Work Plans, Operating Procedures, Project Documentation and Training Plans).
- Reviewing the work of others for technical accuracy and adequacy.
- Supporting field walk downs of assigned job scopes and coordinating and monitoring field activities related to Sample Plan development and the management of samples through chain of custody.
- Analyzing data and using specialized software while presenting concise and accurate information to waste generators about the characteristics and management options of their waste.
- Interfacing with a wide range of support service groups including, but not limited to; Industrial Hygiene, Radiation Protection, Trades staff, Waste Management Operations staff, and Waste Program Staff.
- Innovating while adhering to safety, regulatory and client requirements and demands.
- Assessing new project scope and defining the strategic approach to characterizing the waste stream to the appropriate level.

- Developing sound Waste Characterization and Sampling plans, understanding the limitations of those plans and providing oversight and guidance during execution to ensure quality samples are collected forming the basis of sound analysis.
- Interpreting data from testing and analysis (i.e. gamma spectroscopy), and various laboratory capabilities for analysis of various radionuclides and non-radioactive elements in a multitude of samples (liquid, soil, concrete, etc.) and using this information for making decisions and recommendations for to waste processing.
- Working under pressure and managing conflicting priorities.
- Communicating well orally and in writing. Writing excellent technical reports, with an ability to organize and present ideas, requirements and processes in a logical and succinct manner.
- Delivering presentations and/or training to other staff, including technologists, professionals and managers.
- Maintaining confidentiality in all matters.
- Other duties as assigned by manager.

What we are looking for:

- Security clearance eligibility required: Reliability Status with Site Access Security Clearance (SASC), which has a minimum requirement of 3 years of verifiable history in Canada, Australia, New Zealand, United States and/or the United Kingdom. CNL implements security screening in accordance with the Treasury Board of Canada Secretariat "Standard on Security Screening" and the "Policy on Government Security".
- Bachelor of Science (Honours) degree in Health Physics, Mathematics, Nuclear Engineering or Physical Sciences.
- Experience in nuclear operations specifically in the areas of Waste Characterization, Environmental remediation, Waste Acceptance Criteria, Transportation of Dangerous Goods and related regulations is considered an asset.
- A strong knowledge of waste characterization techniques and industry best practices including US EPA Data Quality Objectives (DQO) Process and MARSSIM principles is required as well as knowledge and understanding of the Canadian Standards Association N292 'General Principles for the Management of Radioactive Waste', Canadian Nuclear Safety Act Regulations, IAEA Standards, as well as related provincial regulations including but not limited to PCB regulations, Federal Halocarbon Regulations, Canadian Environmental Protections Act, etc.
- Must demonstrate an understanding of radiation detection techniques, the development and application of radionuclide scaling factors, and be able to explain various waste processing methods related to nuclear waste.
- Must understand principles of statistical analysis and how they apply to this process. Must be able to read and understand Waste Acceptance Criteria documents
- Strong technical and communications skills to provide guidance on technical problems. This position would be expected to provide expert advice within the company.
- Strong technical writing skills to produce complex reports on technical subjects.
- Strong communication skills to influence and educate various audiences including operations staff of various backgrounds, clients, supply chain vendors, peers/colleagues and management.
- Knowledge of Waste Management principles and practices including an understanding of waste hierarchy and how to apply it.
- Knowledge of Radiation Protection Principles, contamination control and how to apply these to work activities is required.

Characterization Specialists are expected to achieve a minimum Group 3 certification while in role.

- An understanding of various radiation measurement instrumentation including various gamma spectroscopy instruments (in field and in shop), X-Ray Fluorescence, etc. and various analytical techniques (e.g. Toxic Characteristic Leaching Procedure) and when to use them.
- Understanding the limits of instruments, how to read and interpret data output from these instruments and being able to factor in uncertainty in the analysis is essential.

Working Conditions:

- Enter decommissioning work areas to perform field walk-downs to assess processes and/or to help resolve issues directly at the source.
- Wear appropriate PPE & C (hard hat, safety shoes, hearing protection) depending on the field conditions.
- The WCS will be designated a Nuclear Energy Worker and will be expected to spend approximately 50% of their time in the field, working with Waste Generators and other personnel involved in waste management activities. The other 50% of the time will be spent in an office setting; the individual must be willing to work in a shared office space.

Why CNL?

Does working with a team across Canada to advance nuclear science and technology for a clean and secure world speak to you? We're reinventing ourselves to be the pace setters, so we can lead the charge in solving the problems that matter, like building the next generation of clean nuclear and hydrogen energy solutions, developing new and better-targeted cancer treatments, and continuing to lead the world in environmental remediation.

- Compressed work week! You get to work hard and enjoy more time with your family and friends. Work-life balance is an integral part of our overall health and well-being; at CNL, we value this.
- We offer a complete total rewards package:
 - o paid time off (vacation, sick, floater & personal days);
 - o benefits effective day one, that's right no waiting period;
 - o tuition support;
 - o and a pension!

Do Our Priorities Resonate with You?

- Clean energy for today and tomorrow.
- Restore and protect the Environment.
- Contribute to the health of Canadians.

CNL is committed to providing an atmosphere free from barriers that promotes 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 that is 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 indicate via our ATS when applying. 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.

Location:

CNL's Whiteshell Laboratories is located in the beautiful and historic municipality of **Pinawa, Manitoba**, roughly one hour by car from Winnipeg, MB. [Pinawa](#) is an excellent choice for people looking for peace and [tranquility](#) and those who love the outdoors.

To apply for this position, please follow the link:

<https://tre.tbe.taleo.net/tre01/ats/careers/v2/viewRequisition?org=CNLLTD&cws=37&rid=5625>