

The ***Nuclear Waste Management Organization (NWMO)*** is responsible for the safe, long-term management of used nuclear fuel in Canada. The approach it is implementing, known as Adaptive Phased Management (APM), involves developing a centralized underground repository, supported by a robust social and technical research program in collaboration with Canadian universities, consultants and international waste management organizations.

Join our growing team of scientists, engineers and other professionals to work collaboratively with Canadians in implementing our management approach in a manner that safeguards people and respects the environment, now and in the future.

## **CORROSION SCIENTIST**

This position offers a significant opportunity for professional growth. The successful candidate will be a member of a team responsible for providing support to the Adaptive Phased Management Technical program by providing corrosion material research and development to improve the reference conceptual design and confidence in the safety case for a deep geological repository for Canada's used fuel.

This role will be of interest to those wanting to use and further develop skills and knowledge to develop into the technical expert in corrosion material research. This position will report to the Manager, Engineered Barrier Science.

The specific duties include:

- Assisting in preparing corrosion material research plans, studies and activities with a primary focus on the corrosion barrier materials associated with a used fuel container (e.g., copper and carbon steel) for various potential host rock formations.
- Providing corrosion material input to the development of the design requirements and specifications for a used fuel container and related systems in a deep geological repository.
- Assisting with acquiring and applying methods, models and codes to evaluate corrosion processes and corrosion products, and to predict the lifetime of used fuel containers and related systems in a deep geological repository.
- Participating in resolving key corrosion issues and impacts of corrosion products (e.g., gases, chemicals and physical transformations) on the design and safety of a deep geological repository.
- Generating corrosion material reports, papers and presentations.
- Assisting with identifying, defining, evaluating, securing and managing external contracts with consultants, universities and other national radioactive waste management organizations related to corrosion material research and development.
- Producing presentations on corrosion material results for technical groups, government authorities and other national waste management organizations.
- Carrying out work activities in compliance with legislated and corporate requirements and programs.

- Keeping abreast of developments in corrosion material research through technical publications, contacts with internal and external experts in the field, and conference papers and presentations.

**Qualifications and Experience:**

The successful candidate will have:

- A four year university degree in an engineering or science discipline directly related to the accountabilities
- Over two years' experience to gain an understanding of corrosion of engineered barrier materials such as copper and carbon steel.
- Experience in applying theoretical and practical technical knowledge and sound analytical thinking to solve problems.
- Demonstrated ability to work effectively in a multi-disciplinary team environment.
- Proficient verbal and written communication skills to prepare reports, recommendations and presentations.
- Excellent PC skills (Microsoft Office Suite).

**Preferred Experience: Working knowledge of French would be an asset.**

You must be eligible to work in Canada and must be able to meet security clearance requirements.

We offer competitive base salary and comprehensive pension and health care benefits package.

The NWMO supports the principles and practices of diversity and is committed to providing a respectful, accessible, and inclusive environment for all persons with disabilities in a way that is respectful of the dignity and independence of people with disabilities and in a manner which takes into account the person's disability and embodies the principles of integration and equal opportunity. The NWMO will provide accommodation to applicants with disabilities. If you require accommodation, please [Contact Us](#).

Please submit your application via e-mail quoting **Corrosion Scientist** to: [Employment@nwmo.ca](mailto:Employment@nwmo.ca)