



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.

### **SCIENTIST/ENGINEER, GEOSCIENCE (Geomechanics)**

We are currently seeking a Scientist/Engineer, Geoscience (Geomechanics), for our APM Research and Development program at our Toronto headquarters in areas relevant to Deep Geologic Repository (DGR) Geomechanics.

The DGR concept for the safe long-term containment and isolation of radioactive waste is founded on a multi-barrier approach, including the waste form, the engineered barrier system(s) and the enclosing geosphere. Key activities in geoscience focus on the collection and synthesis of site specific data to assess current conditions, and past and future site evolution as relevant to a repository safety case. Site characterization activities are broadly based involving the interaction of multiple geoscience disciplines to establish, among other aspects, the positioning and layout of the repository to afford passive safe design, the assessment of repository stability during construction, operations and post-closure phases, and the response of the enclosing repository rock mass to induced internal and external natural perturbations occurring over time frames of 1 million years. This position is within the APM Technical Program involved in applied research and development activities. The work program involves the oversight and coordination of applied research activities at Canadian and International Universities, as well as, specialist consultant's knowledgeable of phenomena most influencing repository safety.

Qualifications and experience for this role include –

- A 4-year university degree majoring in earth science or geotechnical engineering with over 6 years of relevant experience;
- A strong background in rock mechanics related to both crystalline and sedimentary settings;
- A demonstrated familiarity with field (borehole) and laboratory methods and protocols for the characterization and derivation of rock mass properties in sedimentary and crystalline environments;

- An ability to conduct advanced numerical analyses of underground rock mass response during various phases of repository evolution;
- A demonstrated ability to communicate through written and oral means work program results in Canadian and international forums;
- An ability to coordinate and manage multiple research programs, and to transfer research findings to practical application;
- Knowledge of geomechanical features, events and processes most influencing confidence in repository performance and safety;
- The background to allow APGO and/or PEO registration.

Candidates with lesser qualifications will be considered.

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 **Scientist/Engineer, Geoscience (Geomechanics)** to: [Employment@nwmo.ca](mailto:Employment@nwmo.ca)