NUCLEAR WASTE MANAGEMENT ORGANIZATION
SOCIÉTÉ DE GESTION DES DÉCHETS NUCLÉAIRES

The ***Nuclear Waste Management Organization*** 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.

DEVELOPMENTAL ENGINEERING
SUMMER STUDENT OPPORTUNITY (Safety Assessment Support)

(One position available)

WORK ACTIVITIES:

The primary focus is to consolidate all known characteristics of the non-processible waste in a database, identify any gaps in the database, and document the findings in a technical report.

In particular,

1. Compile an EXCEL database for the radionuclide concentration in non-processible wastes:
   - Data will need to be QA checked against original data source.
   - Data statistical analysis and plotting will be carried out.
   - A literature review will be performed, to see if there is data for other CANDU or international low level radioactive waste that can be used as a comparison.
2. Compile an EXCEL database for chemical composition of non-processible wastes:
   - Review current estimate for the bulk physical composition of non-processible waste.
   - Update the calculated chemical composition of non-processible waste using recently collected elemental composition data.
   - Review the estimates of hazardous chemicals (such as lead, mercury, asbestos) and update based on recent Radioactive Waste Notification Forms.
   - Develop an estimate for volatile organic carbons in non-processible waste.
3. Prepare a “Characteristics of Non-Processible Waste” report, using the intermediate level radioactive resin waste report as an example.

Perform other duties as required, including QA checking of various documents related to waste characterization.

Undertake additional tasks as required such as preparation of an EXCEL database for ash or compacted wastes, or preparation of a technical memorandum on current status of knowledge of feeder wastes.

STUDENT QUALIFICATIONS:
It is recommended that a student in a university chemical engineering program (preferably completed 2nd or 3rd year). Candidates with successful previous placements of a similar nature will be preferred. The following skills will also be an asset:

- Good knowledge of statistics;
- Good knowledge of EXCEL;
- Quick learner;
- Can work independently;
- Proficient oral and written communication skills.

EMPLOYMENT PERIOD:
4 months – Summer Term; May 1, 2017 - August 31, 2017

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 **Developmental Engineering Summer Student Opportunity (Safety Assessment Support)**, to: **Employment@nwmo.ca**

Posted: January 25, 2017
Closing: February 1, 2017