Position: Glassblower Trainee/R&D Technical Officer

Duties

The successful candidate will have two distinct responsibilities within the Analytical Chemistry Branch.

One-half of the duties for this position will involve apprenticing under the CRL Scientific Glassblower. The apprenticeship will include developing skills to:

- Produce and maintain Isotope Production glassware for MPF and DIF
- Provide glassblowing services to the NRU Control Lab
- Provide glassblowing services to a wide variety of scientific glassware problems for projects at CRL.

Duties will include but not be limited to manufacturing standard pieces of glassware such as alumina columns and reaction flask components as well as custom glassware used to sample reactor gases from NRU. This work will be performed under the supervision of the Scientific Glassblower.

The remaining 50 % of the duties will be to provide technical assistance to the Waste Processing Technology Section in various separation chemistry and waste processing areas. This may include:

- Sample preparation and preservation involving waste solids, liquids and gases
- Perform quality-assured analysis of a variety of samples using various chemical instrumentation such as scintillation and fluorometry methods.
- Participate in the development of advanced processes for CANDU effluents (e.g., spent resin and active liquid waste) involving radioactive and non-radiological contaminants.
- Compilation of technical databases for various projects.
- Developing, documenting and implementing QA/QC test procedures for activities normally carried out by the team members.
- Assuming responsibilities for housekeeping and upkeep of laboratories.
- Performing process development tests using bench-scale and pilot-scale equipment.
- Ability to work parallel tasks as a member of the team.

Qualifications:

A science degree or diploma, preferably in analytical and/or inorganic chemistry, chemical engineering technology or a related field, from a recognized university or technical college, or an equivalent formal education with a minimum of two years pertinent technological experience.

Or

Secondary school honours graduation with a minimum of six years relevant experience or the equivalent in experience, additional education and/or training;

The successful candidate must have a strong working knowledge of chemistry and chemical principles. Candidates who have demonstrated a strong mechanical aptitude through practical experience developing and assembling chemical apparatuses and working with analytical instruments are preferred. Other desirable qualifications include:

- Practical experience in the development of analytical methods and the application of standard QA/QC procedures
- Prior experience in separation-chemistry and waste-processing related R&D would be a definite asset
- Knowledge of common system operating platforms and data handling software and computers
- Must be computer literate including familiarity with MS Word, Excel, etc.
- The ability to work on a variety of projects, multi-tasking and flexibility are required.
- Strong interpersonal and communication skills (oral and written)
- Strong organizational skills
- The ability to work well both in a team environment for meeting project timelines and independantly are essential.

The successful applicant must also meet enhanced security requirements and will be required to qualify as a Nuclear Energy Worker (NEW). The ability to meet the requirements of Group 2 Radiation Protection Training is required.

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

Please visit our website at www.aecl.ca to apply.