The Reactor Physics Methods group at AECL has an open position for a Postdoctoral Fellow. Our group is involved in the following general areas:

1. Lattice physics transport
2. Full-core neutronics analysis
3. Nuclear data sensitivity analysis

The ideal candidate will have:

1. A PhD from a recognized university in one of the following areas: Reactor Physics, Transport Theory, Physics, Mathematics.
2. A very strong mathematics background in one or several of the following general areas:
   a. Integral and/or integro-differential equations;
   b. Boundary value problems;
   c. The calculus of variations;
   d. Matrix and vector analysis;
   e. Special functions.
3. A strong background in numerical analysis methods covering the one or several of the following topics:
   a. Variation formulations of boundary-value problems;
   b. Finite difference and/or finite element methods;
   c. Direct and/or iterative methods for solving linear systems of equations;
   d. Numerical integration of special functions;
4. A strong technical computing background in Fortran 95 (or later) or C/C++. Experience in scripting languages would be an asset.
5. Experience in the following Reactor physics techniques is desirable:
   a. Multi-group approximations;
   b. Neutron transport methods.

About the position
- It is based at Chalk River Laboratories, Ontario, Canada.
- Candidates must be legally eligible to work in Canada.
- The appointment is for two years, with the possibility of extending to a third year.
- Salaries are competitive.

Application process
Candidates should apply to the Postdoctoral Fellowship program *using the online application process*:

1. Visit http://www.aecl.ca
2. Select "English" as your language preference (as of the time of this email, the posting is listed only in English).
3. Click on "Join our Team"
4. Click on "opportunities" in the sentence "We have opportunities for engineers, …" under the picture.
5. Click on "current job opportunities" in the sentence "View all current job opportunities"
6. The posting is "Postdoctoral Fellowship Program", dated 3 January 2012 under category "Post Doctoral Program".

Or you can make use of the direct link below:

In the interest of ensuring your dossier reaches the right people, please add the following to your cover letter: "This application is directed to the attention of the Computational Reactor Physics branch."