



The Communications Research Centre (CRC) and University of Ottawa (SITE) have a temporary research / learning program opportunity for:

**a M.Sc. or Ph.D. student**  
in Computer Science, Computer Systems Engineering or EE  
to work at CRC's Optical Networking Laboratory (ONL)

You have a background and interest in programming, computer engineering, communication technologies, network control and emerging broadband applications. You have published technical reports, research papers in journals or conferences. You have already completed or are near completing your course requirements. If so, this is a unique opportunity to undertake learning / research activities towards building an **Autonomous Intelligent Reconfigurable Optical Network (AIRON)**.

Over the period of this research assignment, a successful candidate will be exposed to regular research activities in a multi-disciplinary environment, including S/W development, validation and verification of S/W in an optical network environment and paper publishing.

The work is to be performed at the Optical Networking Laboratory (ONL) of the Communications Research Centre ([www.crc.ca](http://www.crc.ca)), under the supervision of Dr. Alex Vukovic, Adjunct Professor at the School of Information Technology & Engineering (SITE), University of Ottawa ([www.site.uottawa.ca/~vukovic](http://www.site.uottawa.ca/~vukovic)). It is possible that the research performed be part of the student's thesis (mutual agreement with current student supervisor).

Requirements and skills:

- Enrollment in an M.Sc. / Ph.D. program in Computer Science, Computer Systems Eng. or EE (for graduate students)
- Understanding of the basic concepts, principles and technologies of communication networks and architecture, S/W development of control S/W (courses or background)
- Experience with Java and XML (mandatory)
- Experience / knowledge of Web Services and Globus Toolkit would be an asset
- Experience with working in a test and measurement lab environment is a plus
- Excellent communication skills in English with ability to publish papers / reports.

Funding, Starting date and Duration:

A successful candidate will be required to work at CRC at least 3 days per week and will be granted financial support up to a maximum of one-year (NSERC funds). The funds are in addition to whatever grant / fellowship the candidate currently receives. The starting date is flexible and will be mutually agreed upon the selection of a candidate. Expected starting date is April / May 2009.

How to apply?

Students are encouraged to submit their CV, official transcripts with grades and list of publications to Dr. Alex Vukovic directly at [alex.vukovic@crc.gc.ca](mailto:alex.vukovic@crc.gc.ca) or [vukovic@site.uottawa.ca](mailto:vukovic@site.uottawa.ca) with the subject line "CRC - AIRON - Your Name" before March 16, 2009 or until the position is filled. Only candidates selected for an interview will be contacted.

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