

**Lumerical Solutions: Software Developer I**

Application closing date: February 13<sup>th</sup>, 2009

Starting date: May 1<sup>st</sup>, 2009 (negotiable)

Lumerical Solutions is a Vancouver-based provider of high-performance computer-aided engineering software. Our software solutions are licensed by Global Fortune 500 technology firms in North America, Europe and Asia who are working to develop next-generation optical components and devices in the solid-state lighting, semiconductor manufacturing, optical data storage, imaging, biomedical, and materials science industries. As a rapidly-growing technology firm with a focus on creating long-lasting impact, Lumerical offers a compelling environment for individuals to grow their career:

- Our growing entrepreneurial organization empowers our people to profoundly impact the direction of their own career and the direction of the company itself;
- Commitment to our people and their family is acknowledged through a comprehensive benefits package, and generous workplace flexibility that enables individuals to pursue other interests outside of core hours and enjoy Vancouver - a city routinely placed in the top 3 places to live in the world;
- Ethical practices and respect for our communities renders Lumerical a company one can be proud to help build; and
- Lumerical's bonus plan presents a tangible way in which contributions and innovations of all team members towards building a world-class company are recognized and celebrated.

In August 2008, Lumerical was named as a finalist in the Red Herring Canada Top 50 as one of the most innovative and promising private technology companies in Canada.



Learn more about us at [www.lumerical.com](http://www.lumerical.com).

**The Opportunity**

Lumerical is seeking a Software Developer to join our Research and Development team and contribute to our industry-leading optical engineering software. This entry-level position makes it possible to experience all aspects of cross-platform software development from user interface design to parallel programming targeting cutting edge computer hardware technologies. Reporting to the Director of Product Development, the successful candidate will:

- Design and develop new graphical user interfaces, including technical data visualization;
- Implement and test new numerical algorithms;
- Perform profiling and develop code to optimize key parts of the software;
- Assist in the software design process;
- Implement new changes to the software;
- Develop automated software testing methods; and
- Keep up to date with the latest technology in parallel and multi-core development.

**Qualifications**

The successful applicant will possess all or most of the following qualifications and experience:

- A bachelor's degree in a relevant computer-related discipline with an excellent record of academic achievement;
- In-depth knowledge of C++ and object-oriented design and programming;
- Experience with numerical analysis;
- Background in vector calculus, differential equations, linear algebra and complex variables; and
- Good written & verbal communication and documentation skills.

Any of the following additional qualifications would be considered an asset:

- 1-2 years of industry experience using standard software engineering practices in a professional environment;
- Familiarity with MATLAB or other technical computing languages;
- Experience using debugging, profiling and revision control tools;
- Experience developing applications in Visual Studio environment; and
- Experience with the QT application framework.

The ideal candidate is a self-starter, able to operate both independently and as part of a tightly-knit team on a variety of projects within a fast-paced and dynamic environment. As a key contributor to Lumerical's ongoing product development efforts, the successful candidate will have keen desire to improve the way in which their responsibilities are met, and produce best-in-class software products for leading technology firms around the world.

Interested parties are encouraged to email a copy of their cover letter, highlighting salary expectations, and resume to [hr@lumerical.com](mailto:hr@lumerical.com).