



**High Performance Computing Virtual Laboratory  
and  
Sun Microsystems of Canada, Inc.**

**Call for Applications**

**Sun Microsystems of Canada Scholarship  
in Computational Sciences and Engineering**

Deadline for this competition: July 30, 2010  
Documents received after this date will not be accepted.

**Purpose of the Scholarship**

The purpose of the Scholarship is to attract new graduate students to HPCVL member institutions and to encourage research in the broad areas of computational sciences, computational engineering, computational social sciences, computational humanities and computational medicine, referred to below as Computational Sciences & Engineering.

**Value of Scholarship**

The value of the Scholarship is \$5,000 per year.

**Number of Scholarships**

Up to 16 scholarships are available for each academic year.

**Eligibility**

To be eligible for a scholarship, the applicant must be enrolled in an accredited graduate degree program in Computational Sciences & Engineering at Carleton University, Queen's University, Ryerson University, the Royal Military College of Canada, or the University of Ottawa. Applications can be received from those who have applied for admission, but a scholarship will be awarded on the condition that the applicant maintains full-time registration in that program for an entire academic year.

**First-time applicants will be either newly registered on or after September 2009 or have applied for admission to their program for either September 2010 or January 2010.**

Applicants must use HPCVL HPC resources in their research program. This will entail your supervisor currently being or becoming an HPCVL group Principal Investigator (for more details please visit: <http://www.hpcvl.org/signup/membership-signup-procedure.html> for requirements and process). If you do not become an HPCVL user and/or your supervisor is not an HPCVL group PI within three months of the announcement of the award and/or the commencement of your program (whichever occurs first), the scholarship will be revoked.

**Deadline:** July 30, 2010 (*documents received after this date will not be accepted*)

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First-time applicants must be in the first year of their program of study. Applicants who have been promoted to a Doctoral program without completion of a Master's degree are treated as new to their program and must complete the application requirements for a first-time applicant.

The term of a renewal application cannot overlap with the initial award and therefore must be submitted to coincide with a semester that follows the completion of the first scholarship term. The maximum number of scholarships any applicant may receive is two (2).

In all cases, HPCVL seeks to attract new students, who have demonstrated academic excellence, to its member institutions. All applicants must meet minimum scholarship requirements at the institution where they are or will be registered.

### **First-time Application**

Each application will follow the general guidelines provided by NSERC, SSHRC, OGS, CIHR, etc. If an applicant has a current application to one of these agencies, it can be used in support of an application for the HPCVL-Sun Scholarship.

#### **First-time applications must include:**

- Application Cover Page included with this document. **All fields must be completed.**
- Research proposal explaining the applicant's research, the importance of the research, and how the research intends to make use of HPCVL; maximum two (2) pages.
- Current and past awards and academic achievements; maximum two (2) pages.
- Publications, pending publications and presentations; maximum two (2) pages.
- Undergraduate and graduate transcripts.
- Two (2) Letter of Reference forms included with this document, only one of which can be from either the current or a former thesis supervisor.
- Applications can be provided in either French or English.

**The onus is on the applicant to demonstrate that the proposed research has a substantial computational science component that requires the parallel computing environment provided by HPCVL.**

First-time applicants may apply one academic term earlier than their expected first registration.

### **Renewal Application**

Scholarships are awarded on a yearly basis. It is renewable one time, upon application, subject to availability of funds. Renewal applications and first-time applications are placed in direct competition.

Applicants applying for renewal must be registered in a Ph.D. program. Candidates must be conducting computation on HPCVL resources by the end of their first scholarship term.

Renewal applications cannot overlap with a previous Sun Microsystems Scholarship and therefore must be submitted to coincide with a semester that follows the completion of the first scholarship term.

**Renewal applications must include:**

- Application Cover Page included with this document. **All fields must be completed.**
- Research statement explaining the applicant's research, the importance of the research, how the research makes use of HPCVL, research progress to date and plans for the next year; maximum two (2) pages.
- Two (2) Letter of Reference forms: one from the applicant's thesis supervisor.
- Current and past awards and academic achievements; maximum two (2) pages.
- Publications, pending publications and presentations; maximum two (2) pages.
- Undergraduate and graduate studies transcripts.
- Applications can be provided in either French or English.

**Procedure**

Applications are made to the HPCVL/Sun Microsystems Scholarship Committee. It is anticipated that there will be three (3) competitions in 2010. The first competition deadline is March 25, 2010. Deadlines for the second and third competition are July 30, 2010 and November 25, 2010, respectively.

**Documents received after the deadline date will not be accepted.** Please use courier service, if necessary, to ensure receipt. Documents can also be dropped off at HPCVL, 993 Princess Street, Unit 115, Kingston, ON.

The Scholarship Committee will recommend candidates for a Scholarship. Recommendations are based on academic excellence, the applicant's research proposal demonstrating the anticipated use of HPCVL resources, and the potential impact of the research in their field. Reference Letter forms in support of the candidate's application and other achievements.

An award of NSERC, SSHRC, CIHR, OGS, FCAR or similar scholarship will be considered as evidence of academic excellence.

There are no quotas for either master's or doctoral students or for academic institutions. All applications are considered in confidence. Recommendations for each scholarship are forwarded to the HPCVL Board of Trustees for their approval.

Please submit all documentation to the Committee at:

<p><b>HPCVL / Sun Microsystems Scholarship Committee</b> Queen's University 115-993 Princess Street Kingston, ON K7L 1H3 Tel: (613) 533-2561   Fax: (613) 533-2015   Email: <a href="mailto:hpcvl@queensu.ca">hpcvl@queensu.ca</a></p>
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### **Recognition**

HPCVL, Sun Microsystems, and the university in which the recipient is registered, reserve the right to publicize in the public domain the names of the recipient, their research topics and other general information. Non-proprietary research outcomes, which will be determined in consultation with the recipient and their academic supervisor(s), can be also publicly released.

### **Background to HPCVL**

The High Performance Computing Virtual Laboratory (HPCVL) was formed in 1998 by a consortium of four Ontario universities, Carleton University, Queen's University, The Royal Military College of Canada, and the University of Ottawa, and now includes Ryerson University, Seneca College in Toronto and Loyalist College in Belleville. HPCVL is dedicated to providing researchers at member institutions and researchers from elsewhere in Canada with the High Performance Computing (HPC) resources they need to conduct innovative research in a broad spectrum of disciplines.

HPCVL has received funding from the Government of Ontario, the [Ontario Research Fund](#) (ORF), the [Canada Foundation for Innovation](#) (CFI), the [Ontario Innovation Trust](#) (OIT), and the [Natural Sciences and Engineering Research Council](#) (NSERC). HPCVL participates in national efforts, such as the national HPC application to the CFI National Platform Fund and in provincial coordination efforts. In addition, it has formed partnerships with Sun Microsystems, NAG, and Entrust, Inc who are helping to build one of the best HPC environments for research in the world. Since inception, HPCVL has worked to make its resources available to all researchers, including those who work with confidential data or are subject to compliance regulations. This has meant a focus on security and, thus, our partnership with Entrust.

A full description of the HPCVL environment and current and back issues of the HPCVL newsletter *labnotes* may be found at [www.hpcvl.org](http://www.hpcvl.org). The newsletters contain short reports on some of the exciting research being conducted with HPCVL resources as well as information about operations and profiles.

Sun Microsystems is HPCVL's major private sector partner and HPCVL is very grateful for Sun's sponsorship of the Scholarship program. HPCVL is a Sun Microsystems Centre of Excellence in Secure Grid and Portal Computing and works with Sun in many other ways to bring new technologies to market, including participating in beta-test program.



Sun Microsystems of Canada Scholarship in Computational Sciences and Engineering

**Application Cover Page**

- First Time Applicant       Renewal Applicant

Applicant Contact Information

Applicant's Name	
Street Address	
City	
Province	
Postal Code	
Telephone Number (daytime)	
Email Address	

Program Information

Degree Sought	<input type="checkbox"/> Master's <input type="checkbox"/> PhD
Area of Study	
University of Study (if known)	
Supervisor (if known)	
Initial Program Registration Date	

Application Checklist

- Cover Page
- Research Proposal / Progress
- Academic Achievements List
- Publications, Pending Publications & Presentations List
- Transcript(s): **Undergraduate and graduate studies**
- Letter of Reference forms:
  - **First-time applicants:** two (2) Letter of Reference forms.
  - **Renewal applicants:** two (2) Letter of Reference forms, including one from the applicant's thesis supervisor.

Applications to be received by July 30, 2010.  
Documents received after this date will not be accepted.

**HPCVL / Sun Microsystems Scholarship Committee**  
 Queen's University  
 115-993 Princess Street  
 Kingston, ON K7L 1H3  
 Tel: (613) 533-2561    Fax: (613) 533-2015



Sun Microsystems of Canada Scholarship in Computational Sciences and Engineering

Letter of Reference

Completed by Applicant

Applicant's Name	
Degree Sought	<input type="checkbox"/> Master's <input type="checkbox"/> PhD
Area of Study	

Completed by Professor

Name	
Title	
Department	
University	

Are you the current or intended supervisor? Are you an HPCVL group leader?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Or expected start date:</b> _____
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<i>Please rank the applicant on the criteria below.</i>	<b>Top 5%</b>	<b>Top 10%</b>	<b>Top 30%</b>	<b>Bottom 70%</b>	<b>Unable to Assess</b>
1 Academic Performance					
2 Current Ability at Research					
3 Research Potential					
4 Originality					
5 Motivation					
6 Judgement					
7 Computer Skills					
8 Need for HPCVL Resources					
9 Overall Ability					

*In assessing the above, please describe the cohort that you are comparing the applicant with.*

*If you wish to elaborate on this assessment or provide other relevant comments, you may do so in this space or attach one (1) page. **Attachments must be signed.***

<i>I knew the applicant in my capacity as:</i>	
<i>During the period of:</i>	
<b>Signature</b>	<b>Date</b>

Letter of Reference forms, sealed and signed on the back of the envelope, are to be included with the application. Please do not send under separate cover.



Sun Microsystems of Canada Scholarship in Computational Sciences and Engineering

Letter of Reference

Completed by Applicant

Applicant's Name	
Degree Sought	<input type="checkbox"/> Master's <input type="checkbox"/> PhD
Area of Study	

Completed by Professor

Name					
Title					
Department					
University					
Are you the current or intended supervisor? Are you an HPCVL group leader?	<input type="checkbox"/> Yes <input type="checkbox"/> No: <b>Or expected Start Date:</b> _____				
<i>Please rank the applicant on the criteria below.</i>	<b>Top 5%</b>	<b>Top 10%</b>	<b>Top 30%</b>	<b>Bottom 70%</b>	<b>Unable to Assess</b>
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<b>Signature</b>	<b>Date</b>				

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