Final Assessment Report Submitted by SUPR-G to SCAPA

Program:	Scientific Computing Collaborative Graduate Program		
Degrees Offered:	Masters or PhD		
Approved Fields:			
External Consultants:	Nikolas Provotas, Professor, McGill University	An-Chang Shi, Professor, McMaster University	
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Internal Reviewers: Nandi Bhatia, Professor, Western

University

Executive Summary

The one day visit of thentifficontepartipg widthether is was to who depart and pointed out ways in which the program could be further strengthened. Overall, the apport the continuation of this program, identifying it as "well-structured and innovative," providing "incremental value" to students getting trained in the field of Scientific Computing. The program is strengths while as the program is strengths while as the program is strengths while as the program is strengths.

Strengths of Program:

- n competence of faculty in research, teaching, training of students, and strong record of lication
- aborative nature of the program offers an innovative approach to the teaching of scientific uputing at the graduate level
- rning outcomes are well expressed in the brief as well as in course descriptions gram's requirements are clearly articulated, both in the brief and in the course structure, and course structure is appropriate
- eliness of the program and its ability to bridge a severe training gap at the undergraduate I, a gap based on limited competency in scientific computing in most undergraduate icula in Canada
- n quality of students
- ellent resources that include the Sharcnet facility, library materials, study rooms, group krooms, and seminar practice rooms

for improvement & Enhancement:

le course learning outcomes are defined, identifying concrete learning outcomes for the gram would be useful (for example, learning how to program, formalizing knowledge of nerical techniques, innovative thinking, gaining formal credibility on their diploma). Some ification as to how specific courses measure these learning outcomes is recommended ification regarding requirements for the seminar course and Sharcnet workshop would be oful

- The Sharcnet element of teaching is an exciting component of the program and should be both promoted and further expanded to better address the program's needs in terms of consolidating students' experience and skills
- Scientific Computing is relevant to many disciplines that are not currently included within the scope of the program. Broadening participation, and course offerings, to include appropriate aspects of biology, biochemistry, health sciences, finance, computer science, statistics, and "big data" would help with interdisciplinary outreach and would increase program enrolment.

Recommendations required for Program	Responsibility	Resources	Timeline
sustainability:			
Upgrade the Sharcnet course to a "capstone"	Core faculty	Sharcnet	Sept. 2015
course, which will enable clear documentation			
for professional development			
Introduce programming courses for students	Core faculty		Sept. 2015
with insufficient programming background			
Promote the Program through advertisement,	Director, Chairs of	Program	Sept. 2015
an improved website, and an active recruitment	participating		
strategy, in order to achieve higher enrolments	programs, graduate		
	chairs		

Define a mission statement and high-level outcomes for the Program through consultation