



MeRC scholarships for students undertaking research using High Performance Computing (HPC):

Many researchers at Monash University use computers to support their work. Whilst progress can often be made using conventional desktop machines, advanced computers are often required to solve real-world problems of significant scale or detail. As a result, high performance computing (HPC) has become an invaluable tool to answer questions that would otherwise be impossible to answer.

The University runs a number of high performance computers, which are being used across a wide range of disciplines.

The Monash e-Research Centre wishes to help current PhD students increase the use of HPC in their projects. To achieve this we will offer PhD top-up scholarships (initially for one year) consisting of:

- * A cash top-up of \$5000;
- * Advice and assistance in using HPC tools and facilities;
- * Access to the appropriate local, state, national and international HPC resources; and
- * A travel grant to attend a special PhD workshop at the 'IEEE Conference on Supercomputing' in Portland, Oregon, USA.

This scholarship is relevant to:

- * Students whose research will gain advantage, or insight, from applying HPC. For example, students who have a scientific model that they would like to thoroughly explore, or process at a finer grain, but lack advanced computing resources, or an understanding of how to use them.
- * Students who are currently using HPC but who want to significantly scale up their usage, or undertake new or innovative uses of HPC.

Recipients will be introduced to, and encouraged to interact with, HPC experts in the Monash e-Research Centre and the Faculty of Information Technology. During the early stages of the year students can participate in a HPC workshop which will introduce them to high performance tools, techniques and Monash computers. In addition, students will be offered advice and technical assistance from staff at the Monash e-Research Centre and will be encouraged to attend a seminar series which includes presentations by prominent e-Scientists from across the world.

Students will receive a travel grant that allows them to present

their research at an international workshop being organised at the 'IEEE Conference on Supercomputing' - the premier worldwide event for HPC research. International researchers will be invited to this event to provide feedback. On return students will be expected to give a presentation about their research.

Application process:

To apply students should submit a one page proposal emailed to: hpc-scholarship-2009@adm.monash.edu.au before Thursday 30/4/2009, 5pm. This proposal should introduce the student's research area and research goal. It should introduce the student's existing or planned work to model or simulate using a computer. Finally, the proposal should introduce the way HPC is expected to improve or advance the applicant's research. It should also indicate when the student commenced his/her PhD. Applicants are welcome to discuss their application with Wojtek James Goscinski (wojtek.goscinski@adm.monash.edu.au) before the due date.

- * Applicants should be PhD students and should be recipients of an Australian, Monash University, or faculty scholarship for the duration of their degree.

Important Dates:

Application due date, Thursday 30/4/2009, 5pm.

'IEEE Conference on Supercomputing' in Portland, Oregon, USA, 14 to 20 November, 2009.

Submission email address:

hpc-scholarship-2009@adm.monash.edu.au

Information contact details:

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<https://confluence-vre.its.monash.edu.au/display/hpcscholarship2009/HPC+2009+Scholarships+Announcement>