



APAC Internship Scheme 2005-06

Announcement of the Awards

In response to 20 nominations made by the APAC partners, 10 students from around Australia have been awarded APAC Internships for 2005-6.

The APAC Internship Scheme provides national recognition to outstanding undergraduate students enrolled at Australian Higher Education Institutions.

The internships are intended to encourage students to gain further experience with APAC partners and related organisations over the summer vacation and to pursue a career in the area of advanced computation and its applications.

A summary of the evaluation of the students is given in Attachment 1.

The duration of the internships is expected to be up to three months during the period December 2005 to February 2006.

The interns are required to produce a written report at the end of their internship consistent with the requirements of the host partners. Each report should include a statement of the project undertaken and its outcomes and be approved by the supervisor.

The interns will be asked to make a short presentation on their research projects to other students and supervisors via the Access Grid in early February 2006. Details of these arrangements will be forwarded shortly.

APAC will fund the internships through the partners or host institutions that host the students. The funding for each student has been determined as 1.5 times the amount of salary paid to the students by their APAC partner to a maximum of \$8000 for each student. Partners or host institutions will be asked to provide a declaration confirming the salary paid to the student and the period of the internship.

Additional funds will be provided to cover the travel and associated costs for Mr Brett Dickson who was awarded an internship at TPAC and who resides in Melbourne.

APAC will pay the funds on completion of the internship and on receipt of an invoice from the partner and the written report from the student. Should a student not complete the full internship period, the host partner must advise APAC immediately.

Letters will be sent on 11 November to each student awarded an internship, with a copy to their supervisor and the partner contact.

We will use some of the material in this document to produce a public announcement of the internships.

Please contact Sue Cameron (sue.cameron@apac.edu.au) if you have any questions on the arrangements for the internships.

John O'Callaghan
10 November 2005

Attachment 1: Evaluation of the Nominations

The selection criteria for a student to be awarded an APAC Internship were:

- Academic record of the student in the area of advanced computation, or computational science or engineering;
- The relevance of the project to the activities of APAC; and
- The interest of the student in pursuing a career that involves advanced computation or its applications.

The evaluation of the submissions was made by the APAC Executive Director with advice from Dr Stephen Roberts, EOT Program Coordinator, and David Bromage, EOT Project Officer.

The following table summarises the assessments made of the nominated students. The assignments made are ‘++’ (excellent), ‘+’, ‘0’ and ‘-’ (relatively weak).

	Record/CV	Interest	Project	Project Title	Award
ac3					
John Stavrakakis	+	+	+	Remote Distributed Rendering System to support Grid-enabled Computational Steering	Y
ANU					
John Jakeman	+	+	+	Numerical study of the effect of a tsunami on the Northern Queensland coast	Y
IVEC					
Christopher Jones	-	+	0	Computer Simulation of Granular Flow in a Rotary Kiln with Lifters using Discrete Element Methods	
Donald Cooper	++	+	0	Corpus Analysis for a Sony AIBO Robot's Knowledge Acquisition	Y
Kia Manouchehri	PhD	+	±	Multidimensional Quantum Random Walk	
Timothy Colgate	-	+	+	Numerical Simulation of the Configuration and Performance of 32-Element Radio Astronomy Dipole Array	
QPSF					
Andrew Stone	-	+	+	Numerical prediction of fractures in dental ceramics	
Jacinta Doocey	++	+	+	Computational modeling and flow visualization of an MR fluid in a bicycle ergometer	Y
Timothy Sullivan	+	+	0	Parallelisation of a finite element code for investigating the plastic yield criterion of composite materials	
Bernard McGrath	+	+			
Lance De Vine	0	+	0	Visualising CFD data	
Ashley Wright	++	+	+	Investigation of implementing web services in the grid portals	Y
Ian Scriven	-	+	0	Ad-hoc peer-to-peer grids	
SAPAC					
Jarrad Springett	+	+	+	Processing of synchrotron data for materials science experiments	Y
Torbjørn van Heeswijck	++	+	+	Comparison of Gaussian98 and Gaussian03 on two different architectures	Y
TPAC					
Brett Dickson (Melb)	+	+	+	Grid enabling Coupled Climate Models	Y
Ian Smith	+	+	+	Toolkit of Empirical Orthogonal Functions for distributed climate data on the information grid.	Y
VPAC					
Panu Phinjaroenphan	PhD	+	+	Grid Project	
Kent Humphries	0	+	0	StgFem	
Belinda May	+	+	+	Multilevel and Longitudinal Statistical Analysis	Y