

**The University of Melbourne
Department of Geomatics**

PhD Scholarship Available

A PhD research scholarship for full-time study is immediately available in conjunction with the Australian Research Council (ARC) 3-year funded research project **Traffic Incidents: Reducing the Impacts**. The Chief Investigators for the project are Professor Clive Fraser of the Department of Geomatics, University of Melbourne and Professor Philip Charles of the School of Engineering, University of Queensland. This Australian Postgraduate Award Industry (APAI) position will be based in Melbourne and have a field work component in Brisbane.

PROJECT SUMMARY

The project will investigate factors affecting the duration of traffic incidents and it will develop methodologies and technology solutions for improved incident management. Options for emergency response, accident reconstruction and policy mechanisms will be studied. A primary goal is to develop cost-effective and innovative policies, strategies, technologies and methodologies to reduce the impact of traffic incidents. This will lead to improved incident response, with reduced delay and cost to motorists, improved safety for responders and accident victims, better safeguarding of infrastructure, faster crash event reconstruction and reduced energy consumption. Project outcomes will enhance efficiency for urban road transport in Australia.

The PhD student will work within the general topic of development and application of spatial information technologies within traffic incident management, with a focus upon image-based 3D measurement techniques for incident recording and accident reconstruction.

SCHOLARSHIP INFORMATION

The successful student will be awarded a scholarship of \$27,000 per annum for full-time study for a period of 3 years and 6 months, subject to satisfactory performance. The stipend may be tax-free depending on the student's personal circumstances and it may be supplemented through paid demonstrating and marking. Selection criteria for the scholarship are:

- ❑ eligibility for admission to the degree of Doctor of Philosophy at The University of Melbourne,
- ❑ a first class honours degree or a research Masters degree in Geomatics, Engineering, Computer Science or a related discipline,
- ❑ demonstrated experience in analytical modelling, preferably using photogrammetry,
- ❑ some programming experience, preferably in C++, and
- ❑ a willingness to participate in cooperative project work with traffic accident investigation units of the Victoria and Queensland Police services.

The PhD student will be required to undertake research, carry out experiments, assist with the preparation of research reports and refereed journal /conference papers, and perform minor duties as directed in conjunction with the academic, administrative and professional activities of the Department.

This scholarship is open to both Australian and overseas applicants. International students should note, however, that the scholarship does not automatically cover tuition fees or other university costs, though it may do so in some circumstances. Interested applicants are strongly advised to refer to the Melbourne School of Graduate Research website at: <http://www.gradstudies.unimelb.edu.au/> for information relating to additional scholarships that may be available for postgraduate students.

APPLICATIONS

Applicants should submit a current curriculum vitae and two letters of recommendation by August 15th, 2008 to Prof. Fraser at the address below. International students should also supply documentation to support the English language requirements for admission to the PhD program.

Prof. Clive Fraser
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Late applications may be considered if circumstances warrant, and prospective applicants requiring further information are encouraged to contact Prof. Fraser by email.