



# PHD SCHOLARSHIP

The School of Civil Engineering at The University of Queensland (Brisbane, Australia) is offering a PhD scholarship for a motivated student to contribute to research being undertaken within the [Fire Safety Engineering Research Group](#). Potential students with a background in structural, mechanical, or fire safety engineering, and with an interest in tall timber construction are strongly encouraged to apply. The scholarship will be for three and a half (3.5) years and valued at AU\$ 26,682 per year. Top-up scholarships and international student fee-waivers are also available to exceptional candidates.

## PROJECT INFORMATION

### *Physical and Fire Behaviour Characterisation of Bushland Fuels*

Bushland fires are devastating events that can have significant loss of life and economic consequences. There is a limited understanding of how bushland vegetation characteristics affect flammability behaviour. Identifying the governing fuel characteristics that influence the flammability of vegetation is an important step towards the development of comprehensive, physics-based bushfire ignition and spread modelling tools.

The aim of this project is to study the ignition and flame spread characteristics of bushland fuels by investigating the relationship between vegetation characteristics (chemical composition, moisture content, material properties, etc.) and key flammability parameters (ignition delay time, critical mass flux, ignition temperature, etc.)

Experimental work within the scope of this project will be carried in the Fire and Structures Laboratories (<http://www.civil.uq.edu.au/fire>) at The University of Queensland.

## QUALIFICATIONS

Candidates must hold a relevant undergraduate or Master's degree in Civil Engineering, Mechanical Engineering, Chemical Engineering, Physics or other related field. Candidates with skills or interested in fire safety engineering, fluid mechanics, heat transfer, forestry are strongly encouraged to apply.

## HOW TO APPLY

Interested candidates should submit their scholarship application on the Application for school-based PhD or MPhil scholarship [form](#), together with your supporting documents on the [HDR online application system](#).

Details on the application for admission and scholarship process can be found at <http://www.civil.uq.edu.au/HDR-application-apply>.

For further details, please contact **Dr Andres F. Osorio** at [a.osorio@uq.edu.au](mailto:a.osorio@uq.edu.au).

Submission due by **06/10/2017**.