

FedUni and Safetech Scholarship Application

Project: **Development of an advanced diagnostic and data gathering capability that will be embedded into Safetech products**

Location: Churchill, Victoria

Surname

Given name

Address

Telephone

Email

Are you a current FedUni HDR candidate? Yes No

Student ID

Successful applicants will be advised by 13/07/2018, and will be expected to commence by 30/08/18.

For questions related to the scholarship topics, please contact Professor Steve Wilcox, (03 5122-6176 steve.wilcox@federation.edu.au)

Conditions

Scholarships are available for domestic students only. Scholarships are full-time, with no possibility of being undertaken part-time during candidature. Students will be required to commit to a minimum of four days per week “on site” and participate in an industry placement during the term of the candidature. Scholarships are for a period of three years. Extensions to scholarships will not be granted.

General conditions of HDR Scholarships at FedUni can be found at:

http://policy.federation.edu.au/research/higher_degrees_by_research/hdr_candidate_selection/hdr_candidate_selection/ch06.php. Where these conditions differ to those on this form, the conditions outlined for this specific scholarship take precedence.

Eligibility to undertake a PhD

To be eligible to undertake a PhD, students must meet [eligibility requirements outlined on the Research website](#). If you are applying for “Honours equivalence,” please ensure that you provide detailed information to support your case.

Referees

Please nominate one referee who can comment on your academic/scholarly/research experience and capacity, and one referee who can comment on your practice experience, particularly in relation to the topic area. Referee reports must be returned to Research Services by Monday 2nd July 2018 for your application to be considered. Any applicant without referee report forms will not be forwarded for consideration.

Statement

All prospective candidates are required to provide a 1000 word statement covering the following areas:

- Discuss your motivations for applying for this PhD scholarship, and your intended outcomes (both for yourself (personally and professionally), and for the sector)
- Discuss your understanding of neural networks and data processing
- Discuss some of the existing research literature which impact this topic area
- Outline how you envisage handling the data and training the neural network and getting it to give an outcome which is relevant to the industry partner
- Discuss potential challenges and how you might overcome them

Please list all documents provided, including supporting information:

	Required Documents		Other Supporting Documents
	HDR Application for Enrolment Form		List of published works
	1000 word statement		
	Qualifications		
	Transcripts		
	Scholarship Application (this form)		

For questions regarding the application process for scholarships and candidature, please contact Research Services at: research.degrees@federation.edu.au.

Applications for the FedUni Safetech scholarship close Friday 29th June 2018 and can be submitted via mail, email or in person

For general scholarship and candidature information, please contact:

Research Services,
Federation University Australia,
P.O. Box 663, Ballarat VIC 3353,
Telephone: 03 5327 9508
Email: research.degree@federation.edu.au

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Research project outline

Development of an advanced diagnostic and data gathering capability that to be embedded into Safetech products

Project Outline:

This research project will partner with a company called Safetech (<https://www.safetech.com.au/>) that manufacture custom lifting solutions. The project will develop a methodology to process data collected from real-time sensors to be able to predict the performance and assist in the diagnosis of issues. It is envisaged that a novel data analysis technique based around artificial neural networks will be developed to be able to deliver a system that is robust at processing the data and discriminating a range of common and rare faults. In order to achieve this three major areas of development will be required;

- a review of the relevant literature and most appropriate software platform,
- development of a prototype system and
- its subsequent refinement and demonstration in real-time on a production system at Safetech.

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