



Position Title:	Lecturer – Agricultural Engineering
Position Classification:	Level B
Position Number:	
Faculty:	Faculty of Engineering and Mathematical Sciences
School:	School of Engineering
Department:	Mechanical Engineering
Supervisor Title:	Head of Department
Supervisor Position Number:	

Your work area

The Faculty of Engineering and Mathematical Sciences encompasses three Schools – the School of Physics, Mathematics and Computing, the School of Engineering, and the Oceans Graduate School. Past graduates include Rhodes Scholars, Fulbright Scholars, Eureka Prize winners, Scientists of The Year, CEOs, and award-winning inventors. The Faculty prides itself on its track-record for producing graduates who not only perform well in their chosen profession, but are equipped with the skills and social capital they need to be the very best.

The Faculty has an international reputation for excellence in research and its research teams benefit from global partnerships with industry, attracting research income of more than \$27 million a year – well above the national average. With cross-disciplinary research groups, the Faculty offers a creative and innovative research environment and is poised to respond to a rapidly changing world and develop technologies that fulfil the demands of the 21st century.

Equally important is educating the next generation of graduates for current and emerging industries. The Faculty seeks to promote teaching excellence and to embrace the latest forms of effective educational delivery, and produce graduates with skill sets that promote flexibility and recognise the need for life-long learning.

The School of Engineering is renowned for its award-winning researchers, teachers and facilities. It is a multidisciplinary school offering education and research in a number of engineering disciplines. This includes biomedical, civil, environmental, mining, chemical, mechanical, electrical and electronic engineering. UWA ranks in the world's top universities, as measured by several key independent rankings, including QS World University Rankings for Mineral & Mining Engineering (11th) and Civil Engineering (48th); and Shanghai Rankings for Mineral & Mining Engineering (7th) and Environmental Science and Engineering (16th).

The School of Engineering has an established and dedicated team of teaching and research staff providing broad-based undergraduate programs with solid foundations across engineering disciplines. Innovations in Engineering for Remote Operations form teams of transdisciplinary researchers, offering integrated solutions to the challenges of remote developments. These programs are complemented by an integrated approach and solutions to the challenges of mining development and production, offshore engineering, agriculture, health, transport, energy, water supply and community development.

The Department of Mechanical Engineering specialises in courses involving the production and use of heat and power to design, invent and operate all types of machinery. By studying Mechanical Engineering at UWA, students gain in-depth knowledge of theories and methods surrounding thermodynamics, measurement and noise, machine components and more.

Reporting Structure

Reports to: Head of Department

Your role

The successful application will collaborate with researchers across different schools within the Faculty of EMS and from schools/groups within the UWA Institute of Agriculture and the Faculty of Science to build a strong, internationally recognised research programme that complements existing research groups. As a passionate advocate for teaching excellence the successful candidate will develop and deliver undergraduate and masters curricula with on a focus on agricultural engineering as well as contributing to the School, Faculty and University community by contributing to service activities.

Key responsibilities

- Undertake independent and collaborative research within the general discipline of Agricultural Engineering; generate research output of high impact and international recognition, such as scholarly publications in high impact journals, standards for industrial practices and patents.
- With advice from senior academics, contribute to a strong, internationally recognized research programme synergistic with the existing research groups within the School and the Faculty; attract research funding from the local and federal governments, industry and foreign funding agencies.
- Contribute to the development and delivery of world-class innovative teaching in the degree programmes of the School and the Faculty at both undergraduate and postgraduate levels, with particular focus on the Master of Agricultural Engineering.
- Supervise research students at both the undergraduate and postgraduate levels and post-doctoral research fellows. Attract and recruit quality postgraduate students and postdoctoral research fellows.
- Duly provide service to the Department, the Faculty and the University in its operation; develop and exercise leadership in its affairs; provide services to the government, the scholarly community and the broader public as required.
- Actively support the University's commitment to health and safety, and equity and diversity.
- Other duties as required.

Your specific work capabilities (selection criteria)

- A PhD in Engineering
- Demonstrated research experience in Agriculture Engineering, with a track record of peer-reviewed publications in high quality journal. (relative to opportunity)
- Experience in one or more of: laboratory testing, design of equipment, sensors and sensing systems, robotics and automation, all related to their application in agricultural engineering.
- Highly developed interpersonal, verbal and written communication skills with the ability to work effectively as part of a team.
- Demonstrated ability to work independently and show initiative.
- Demonstrated a willingness to engage with industry and to increase School and University business development capacity.
- Demonstrated ability and willingness to develop, co-ordinate and teach engineering units at undergraduate and postgraduate levels. Evidence of successful teaching is essential. (Relative to opportunity).
- Willingness and ability to teach at either undergraduate or post-graduate levels. Evidence of successful teaching is essential.
- Demonstrated success in course development, engaging active learning techniques, and successful student evaluation (relative to opportunity).

Special Requirements

N/A.

Compliance

Workplace Health and Safety

All supervising staff are required to undertake effective measures to ensure compliance with the Occupational Safety and Health Act 1984 and related University requirements (including Safety, Health and Wellbeing Objectives and Targets).

All staff must comply with requirements of the Occupational Safety and Health Act and all reasonable directives given in relation to health and safety at work, to ensure compliance with University and Legislative health and safety requirements.

Details of the safety obligations can be accessed at <http://www.safety.uwa.edu.au>

Equity and Diversity

All staff members are required to comply with the University's Code of Ethics and Code of Conduct and Equity and Diversity principles. Details of the University policies on these can be accessed at http://www.hr.uwa.edu.au/publications/code_of_ethics, <http://www.equity.uwa.edu.au>



Position Title:	Senior Lecturer – Agricultural Engineering
Position Classification:	Level C
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School:	School of Engineering
Department:	Mechanical Engineering
Supervisor Title:	Head of Department
Supervisor Position Number:	

Your work area

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- Other duties as required.

Your specific work capabilities (selection criteria)

- A PhD in Engineering
- Demonstrated outstanding ability to produce original, high quality research in Agriculture Engineering at least at the national level, with track record of peer-reviewed publications in high quality journal.
- Experience in one or more of: laboratory testing, design of equipment, sensors and sensing systems, robotics and automation, all related to their application in agricultural engineering.
- Highly developed interpersonal, verbal and written communication skills with the ability to work effectively as part of a team
- Demonstrated ability to work independently and show initiative.
- Demonstrated a willingness to engage with industry and to increase School and University business development capacity.
- Demonstrated ability and willingness to, develop, co-ordinate and teach, independently at the organisational unit level, engineering units at undergraduate, honours and postgraduate levels. Evidence of successful teaching is essential.
- Willingness and ability to teach at either undergraduate or post-graduate levels. Evidence of successful teaching is essential.

Special Requirements

Nil.

Compliance

Workplace Health and Safety

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