

RECRUITMENT

Associate Professor of Mechatronics



CONTACT

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Applications close on 19th January 2020.

About Deakin

**TOP
2%**
of the world's
universities¹

No.1

in Victoria for
student satisfaction
2010–2017²

No.214

ARWU global ranking
of world universities³
research capabilities

Deakin's growing reputation is reflected in its rapid rise in international rankings; Deakin entered the prestigious Academic Ranking of World Universities for the first time in 2014 and now ranks an estimated 214 (ARWU 2017). Deakin is ranked 29 in the QS ranking of the world's top universities under 50 years. Ninety percent of Deakin's research was rated at or above world standards in the Australian Government's Excellence in Research for Australia (ERA).

Established in 1974, Deakin University was named after the leader of the Australian Federation movement and the nation's second Prime Minister, Alfred Deakin.

Deakin University has five campuses, one in Melbourne's eastern suburbs, two in the port city of Geelong and one in Warrnambool on the south-west coast of Victoria. Deakin's fastest growing campus is in the Cloud where over 14 000 students study predominantly online. All students, regardless of their campus or mode of study, benefit from Deakin's award-winning digital environment.

Deakin is proud of its inclusive and student-focussed culture and its reputation for using innovative digital solutions to provide an engaging and personalised learning experience. Deakin is committed to lifelong learning, providing students with choices about how, when and where learning occurs.

Deakin's four faculties offer courses across the arts, design, science, sport, nutrition, architecture, business, law, medicine, optometry, engineering, nursing, allied health, psychology and teaching.

With 58 000 students Deakin is one of Australia's largest universities and is ranked in the top 2 per cent of the world's universities in the major international rankings (ranked 29 in the QS ranking of the world's universities under 50 year).

As a Victorian university with a global impact, Deakin is translating its research into the commercial outcomes that will drive the innovation Australia's economy needs now and into the future. Research at Deakin focusses on innovation and robust partnerships with industry and business and it is building a formidable international reputation in areas of emerging national social, economic and political priority in its core areas of health, carbon fibre, energy and cyber security. Deakin has integrated its research growth plan into its overall strategy of service, developing its base in advanced manufacturing, which is vital for the Geelong community and Information technology, which is strong in the surrounds of its Melbourne campus.

Our strategy

Deakin's vision and mission is articulated in its strategic plan *LIVE the future: 2017-2020*. Through *LIVE the future*, Deakin aspires to be Australia's premier university in driving the digital frontier, enabling globally connected education for the jobs of the future, and research that makes a difference to the communities Deakin serves.

Informed by its Australian and Victorian context and engaged locally in the communities it serves, Deakin advances:

- Learning – offering students a brilliant education where they are and where they want to go
- Ideas – making a difference through world-class innovation and research
- Value – strengthening our communities, enabling our partners and enhancing our enterprise
- Experience – delighting our students, our alumni, our staff and our friends.

These four interconnecting elements form the acronym *LIVE*, and together they articulate the Deakin promise to its students, staff, alumni, partners and friends.



FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT

The Faculty of Science, Engineering and Built Environment at Deakin University places great emphasis on excellence in its teaching and learning, research and research training, community engagement, and staff empowerment. We pride ourselves on our national and international activities and the partnerships we have formed with industry, community, government, and the professions.

The Faculty of Science, Engineering and Built Environment consists of four schools, each with a multi-discipline mix of teaching and research offerings and a strong emphasis on research excellence that informs our teaching programs.

School of Architecture and Built Environment

- Architecture
- Construction management
- Landscape architecture

School of Information Technology

- Computer science
- Creative technologies
- Cyber security
- Data science
- Software engineering
- Virtual reality
- Mathematics

School of Engineering

- Civil
- Electrical and electronics
- Electrical and renewable energy
- Engineering Management
- Environmental Engineering
- Mechanical
- Mechatronics
- Mechanical Design

School of Life and Environmental Sciences

- Biological science
- Biomedical science
- Biotechnology
- Fisheries and aquaculture
- Forensic science
- Environmental management and sustainability
- Marine biology
- Science
- Sustainable regional development
- Wildlife and conservation biology
- Zoology and animal science.

The Faculty Executive includes the Executive Dean, the four Heads of School, the four Associate Deans (Teaching and Learning; International and Partnerships; Research; International Research Engagement), the Director of Research Partnerships, and the Faculty General Manager. Collectively, this leadership team establishes and delivers on the Faculty's strategic activities.

Deakin's Promise to Equity, Diversity and Inclusion

At Deakin we value diversity, embrace difference and nurture a connected, safe and respectful community. We recognise that our academic workforce is increasingly diverse with a variety of backgrounds, experiences and responsibilities. In many cases, academic careers can be put on hold through career breaks or part-time work arrangements to take on caring duties, gain experience in other industries, for medical reasons or other personal circumstances.

Achievement relative to opportunity places more emphasis on the quality as opposed to the quantity of research outputs. In your application, we encourage you to comment on your achievements relative to opportunity.

School of Engineering

The School of Engineering is proud to offer a unique approach to its educational delivery based on a philosophy of Project Oriented Design Based Learning (PODBL) where students experience real-world engineering challenges and deliver creative and novel solutions.

The School of Engineering delivers future-forward courses in civil engineering, electrical and electronics engineering, environmental, mechanical engineering and mechatronics engineering that provide our graduates with a sound platform for the diverse employment opportunities that will exist in the future.. These undergraduate programs are complemented

by our Master of Engineering postgraduate specialisations in Engineering Management, Mechanical Engineering Design, Mechatronics and Control and Electrical and Renewable Energy Engineering.

Project Oriented Design Based Learning (PODBL) in collaboration with industry is a fundamental feature of our engineering degrees. Integrating the concepts of creativity, innovation and design to engineering education, PODB� enables teams of students to design, research, test and evaluate solutions to real-world industry problems.

Our Centre for Advanced Design in Engineering Training (CADET) provides some of the best future-focused engineering and design facilities in the university sector. Our vision and passion is to being revolutionary in Australian engineering education. CADET houses virtual and rapid prototyping facilities allowing creative design solutions to be moved almost seamlessly from imagination to reality, and then to manufacture, in a single journey. Be it new wind turbines, sustainable infrastructure, medical devices, alternative vehicles or robotic aids, CADET provides the key elements to 'imagineer' the ultimate solution.

Industry plays a significant role in our direction. Engagement with organisations such as Barwon Water, AusNet, Ford ISCAR, Vic Roads, Quicksilver, SEW Eurodrive, Thales, Viva Energy and many others, enables us to develop industry-ready graduates who are in high demand. Industry placements and industry projects all culminate in an experience that can be life changing as well as career shaping.

Research with impact is another cornerstone of the school's approach. Our programs are not merely research informed but are genuinely research led. Deakin is a significant leader in a number of engineering research areas including water engineering, advanced manufacturing, design engineering and power engineering. Coupled with modern state-of-the-art facilities, the experience gained by our students can be considered the best in class and provides opportunities for research degrees or research careers in Australia or overseas.

If you are seeking a creative and energetic career with modern, purpose-built facilities, collaborating with your colleagues and building your expertise, while contributing to training engineering graduates with respected skills and credentials, Deakin's School of Engineering is a great choice to grow your career.



Associate Professor of Mechatronics

The Associate Professor will provide outstanding research and academic leadership in the area of Mechatronics and promote the School within relevant corporate, government, industry, academic and professional communities in Australia and internationally. The appointee will contribute to service activities locally and internationally, particularly in relation to student recruitment, and will champion the strategic direction of the School, the Faculty and advances the goals of the University's Strategic plan (LIVE the Future).

TEACHING AND RESEARCH LEVEL D

Level D members of staff typically perform these duties at the following levels:

RESEARCH AND SCHOLARSHIP

- Recognition as an authority at the national level and an emerging reputation at the international level in research and scholarship, through publication or exhibition in high quality and high impact outlets
- Providing intellectual leadership within their specific areas of research, scholarship or creative activity, including emerging recognition as a public intellectual
- Contributing to the leadership of major research projects, including internal and external collaboration to create new insights and opportunities
- Creating and sustaining research collaborations and partnerships which have demonstrable outcomes
- Contributing to the leadership of research evaluation and assessment activities

(e.g. competitive grant assessment, contributing to Editorial Boards, ERA panels)

- Contributing to the leadership of successful development of significant international research programs or partnerships
- Mentoring early career researchers
- Contributing to the leadership, supervision, management and timely completion of HDR students, including advising and improving on research excellence, career development and candidature management
- Promulgating and promoting a culture of research excellence in the University, including mentoring colleagues
- Providing leadership in research and scholarship through roles such as Associate Dean
- Demonstrating the successful application of scholarly and research expertise to innovation and invention, with appropriate involvement in the commercialisation of outcomes

LEARNING AND TEACHING

- Demonstrating distinguished scholarly learning and

Performance expectations

Annual performance objectives and expected outcomes will be defined for this role in accordance with the Minimum Standards and Typical Duties for Academic Levels (MSTDALs) and Faculty Research Expectation Models (FREMs). Specific duties will be allocated with reference to the applicable Workload Allocation Model (WAM). These documents are updated from time to time and are available on request.

teaching across all levels and modes (including for example in the cloud and in clinical settings) at the national level, with evidence of an emerging international reputation

- Contributing to the leadership of the moderation and maintenance of academic standards, and the development of course and unit curriculum that exemplifies Deakin's curriculum framework, and meets external requirements such as the Higher Education Standards Framework and professional accreditation
- Researching and publishing in learning and teaching, including testing the effectiveness of innovations designed to improve student and graduate outcomes including graduate employment
- Leading, designing and implementing best practice assessment and evidence of student learning outcomes at Unit and Course level, and leading assessment panels
- Counselling and mentoring students, including referring students to University services
- Providing leadership in teaching and learning through roles such as Associate Dean, Course Director of high enrolling courses or interdisciplinary programs

SERVICE

- Contributing to the leadership towards the implementation of the University's Strategic Agenda
- Leading the recruitment, mentorship and development of early and midcareer staff
- Building and leading effective high performing teams

- Initiating and leading projects within or on behalf of the University
- Leading and implementing external partnerships
- Playing a leading role in high level University or Faculty committees
- Undertaking leadership roles in industry
- Representing the University at significant academic, professional and civic forums
- Initiating and leading significant community engagement activities

ORGANISATIONAL RELATIONSHIPS

The appointee will be actively involved in research, teaching and service related activity. The appointee will contribute to consulting, industry partnerships and professional activities. The appointee may interact with other staff within the School and the Faculty, their peers in other universities, both nationally and internationally, and with community, professional and industry organisations. The appointee will liaise with students at all levels.

ORGANISATIONAL CONTEXT

The appointee will form part of the teaching and research team within the School of Engineering. Staff within the School report to the Executive Dean through the Head of School.

SELECTION CRITERIA

QUALIFICATIONS

- PhD in Mechatronics or a related area

RESEARCH

- Experience in leading teams, with a strong international scholarly publication record based on research or practice in the area of Mechatronics and Industry 4.0 domains

- Demonstrated ability to lead engagement with industry, and produce significant outcomes
- Successful track record of attracting nationally competitive or industry research funding in Mechatronics and Industry 4.0 domains
- Successful track record of research publications in highly ranked academic journals
- Significant experience in supervising PhD and Masters students to timely completion

TEACHING

- Demonstrated ability to make a significant contribution to the Faculty's undergraduate and postgraduate teaching programs in a manner that influences, motivates and inspires students to learn, through both conventional teaching and Project Oriented Design Based Learning (PODBL) methods
- Experience in leading the development of curricula and resources that reflect a design oriented approach to the understanding of Mechatronics Engineering and Industry 4.0
- Expertise in teaching effectively in a technology-enhanced contemporary higher education environment
- Demonstrated ability to lead, develop and administer assessment regimes and provide feedback that fosters independent learning
- Experience of efficiently administering academic programs

OTHER

- Ability to contribute to the development and maintenance of partnerships with professional associations, with industry and with education and research institutions
- Demonstrated commitment to Equal Opportunity principles and practices, and Occupational Health and Safety

- Active involvement in relevant committees or boards

PERSONAL QUALITIES

- Demonstrated personal qualities of leadership, innovation and high motivation
- Interpersonal skills that support the ability to establish and maintain highly effective working relationships with a diverse range of people including students, the staff of the
- Faculty and School and with other members of the University
- Ability to adapt to changes in the environment and effectively meet new challenges
- Commitment to the University's Mission, core commitment and Values which include - excellence, academic freedom, collegiality, continuous improvement, ethical behaviour, accountability and environmental responsibility.

Appointment process and how to apply

Application

Thank you for your interest in the position of Associate Professor of Mechatronics.

Please direct all correspondence and enquiries to;

Richard Shields
Managing Partner / Executive Search
Lead Robertson Search

Tel: +61 3 8610 6135
Richards@RobertsonSearch.com.au

How to apply

Please apply online via:

deakin.edu.au/about-deakin/work-atdeakin

Include cover letter, curriculum vitae and a response to the Selection Criteria.

Please quote reference number:
494054

Interview process

An initial screening of prospective candidates will take place.

Short-listed candidates will be interviewed by a panel of esteemed colleagues.

Details of professional referees will be required prior to interview.

Remuneration and benefits

An attractive remuneration package is offered. Salary will be commensurate with qualifications, experience and research record.

Relocation support may also be available.

Term of appointment

Appointment is for a continuing position which is subject to an initial three (3) year probationary period.

Special Requirement/s

This role has been identified as having contact with children and requires the incumbent to apply for and maintain a Working With Children Check (refer to Deakin's Recruitment Procedure for further details).

Our locations

Deakin has five campuses, one in **Burwood**, two in Geelong (**Waterfront** and **Waurm Ponds**), one in **Warrnambool** and the vibrant Cloud Campus through which 20% of our students study.

Melbourne has been named the worlds' most liveable city for more than 5 years running*.

Further information regarding our locations and relocating to Victoria can be found here:

[Our locations](#)

[Considering Relocation](#)

[Geelong/SurfCoast timelapse](#)

**The Economist's annual study*

GEELONG WAURN PONDS CAMPUS

Our Geelong Waurm Ponds Campus is located on the western edge of Geelong and is a thriving regional campus attracting over 8,000 undergraduate and postgraduate on-campus students. It boasts open and inviting spaces for socialising and studying, innovative architecture and spacious new buildings. The Campus features expansive landscaped grounds and extensive sporting facilities. It is home to the Geelong Future Economy Precinct, which provides research and development capabilities and opportunities for university-industry partnerships and new enterprises in the region.

