

Professor

Department/Unit	Various
Faculty/Division	Faculty of Engineering
Classification	$181,066 pa Level E (plus 17% employer superannuation)
Employment Type	Full-time
Duration	Continuing appointment
Work location	Clayton campus
Closing Date	Sunday 30 September 2018, 11:55 pm AEST

Organisational context

Monash is full of thinkers and doers who are looking for their next challenge. So if you've forged a rewarding career so far, this role provides the perfect platform to join us. You'll have access to quality research facilities, infrastructure and teaching spaces to do exciting work, along with opportunities to collaborate internationally. You'll be part of a university that's made up of inspirational, challenging thinkers and doers – and continue doing work that makes a lasting impact. Discover more at www.monash.edu.

The **Faculty of Engineering** is one of the largest in Australia, renowned worldwide for the quality and calibre of our teaching, research and graduates. We offer a comprehensive range of undergraduate, graduate, postgraduate and higher degree by research programs in a wide range of engineering disciplines. Our research activities provide a platform for establishing a thriving educational enterprise and our staff are committed to creating a dynamic learning environment. The research activities range from fundamental studies to research with a strong applications orientation. To learn more about the Faculty of Engineering, please visit our website.

We are seeking multidisciplinary engineers to lead our research and teaching in this exciting and fast moving field. Applicants are sought with a strong background and interest in smart manufacturing related engineering disciplines, particularly in the areas of:

- Design for manufacturing including design process thinking
- Augmented Reality applications to manufacturing
- Automation and the Internet of Things
- Product Lifecycle Management
- Mechatronics and Controls
- Design for additive manufacturing
- Additive manufacturing processes
- Machine learning for design and optimization of materials development and Processing

All appointments will be made to the most relevant department and where appropriate, candidates will be jointly appointed to multiple departments.

Position purpose

A Professor is expected to make significant international leadership contributions and foster excellence in the teaching, research, industry engagement and professional activities of the Faculty of Engineering. An academic at this level is expected to play a leading role in scholarship, be an internationally recognised leader

in their research field, attract significant funding streams to support research and enhance the intra-departmental collaboration efforts of the faculty. Academics at professorial level may be appointed in recognition of distinction in their disciplinary area and will be expected to play a significant role within their profession and their discipline. This is an opportunity to play a part in shaping the future of engineering at Monash University.

The Faculty of Engineering has a strong commitment to diversity, inclusion and flexibility in the workplace. The Faculty aims to improve gender diversity among academic staff and has gender equity targets for shortlisting candidates.

Reporting Line: The position reports to the relevant Head of Department

Supervisory responsibilities: Not applicable

Financial delegation: Not applicable

Budget responsibilities: Not applicable

Key responsibilities

Specific duties required of a Level E academic may include:

1. Provide strong and committed leadership in teaching, curriculum development and research training by participating in the faculty's curriculum planning and development processes, academic committees, and relevant examination processes in addition to monitoring the quality of individual teaching in the relevant discipline
2. Using best practice methodologies drive educational innovation through the initiation, development and review of course material
3. Course coordination and course content and delivery enhancement, including the preparation and delivery of lectures and seminars, and the design, implementation and review of educational innovations including offering guidance to assistant lecturers and supervision of sessional staff in teaching unit/s as required
4. Consultation with students including marking and assessment of coursework and guidance on areas of development
5. Actively engage in a specialist research area in line with the Faculty's research strategy, by maintaining a substantial active publications record (high-quality refereed journals) and supervising and mentoring early career researchers and research students
6. Contribution to scholarly debate within the profession, production of high quality research that has industry relevance and presentation of research results at national and international forums leading to the attraction of external and government funding.
7. Provide innovative and effective leadership for the expansion of the faculty's HDR program by attracting high quality HDR students
8. Involvement in professional activities such as networking and industry events to enhance relationships and drive collaboration and funding opportunities both nationally and internationally
9. Chair and contribute to departmental, school and/or faculty meetings and play a major role in planning or committee work
10. Contribute to academic and administrative leadership within the faculty by participating in the development of policy and strategy

Key selection criteria

Education/Qualifications

1. The appointee will have:
    - a doctoral qualification and recognised as a leading authority in the relevant discipline

Knowledge and Skills

2. Demonstrated experience and evidence of outstanding scholarly and cross-disciplinary research activity of an international standard in Engineering and a demonstrated ongoing commitment to one or more programs of research
3. A strong publication record in high-quality refereed journals, conferences, equivalent textbooks or teaching resources
4. Evidence of securing significant nationally-competitive grants and/or other sources of funding for research
5. Demonstrated record of successfully supervising postgraduate research students to completion and the ability to make a significant contribution to postgraduate training programs
6. Demonstrated excellence in the development and delivery of high quality teaching and curriculum, at the undergraduate and postgraduate level
7. Exceptional written and verbal communication skills and evidence of sustained relationships with industry, business, government agencies and professional bodies, coupled with vision for the future needs and development of their discipline area(s) within Australia and internationally
8. Proven ability to plan, organise and achieve work targets, sometimes in demanding circumstances, and work harmoniously and constructively with academic colleagues and other University staff
9. Proven professional leadership qualities and capacity for administrative responsibilities, and a willingness to make a substantial contribution to all activities of the department and faculty, including: mentoring, leadership on committees, administration and planning
10. Proven ability to promote the discipline internally within the university as well as externally both nationally and internationally

Other job related information

- Travel and block teaching to other campuses of the University may be required
- There may be peak periods of work during which taking of leave may be restricted

Legal compliance

Ensure you are aware of and adhere to legislation and University policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationships.