

Position Description

Associate Lecturer in Electronic and Mechatronic Engineering

Position No:	50120825
Department:	Engineering
School:	Engineering and Mathematical Sciences
Campus/Location:	Bendigo
Classification:	LEVEL A – Associate Lecturer
Employment Type:	Continuing, Full-time
Position Supervisor:	Head, Department of Engineering
Number:	50004654
Other Benefits:	http://www.latrobe.edu.au/jobs/working/benefits

Further information about:

La Trobe University - <http://www.latrobe.edu.au/about>

College of Science, Health and Engineering – <http://latrobe.edu.au/she>

For enquiries only contact:

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Position Description

Context Statement

The College of Science, Health and Engineering is comprised of 9 Schools and sixteen Departments with 1,000 staff and 16,000 students, including 900 PhD students across La Trobe's multi-campus operations. The College offers a range of general and specialist undergraduate and postgraduate courses that are rigorous and attuned to meeting the needs of students in ensuring their readiness to work in changing environments. The College has an outstanding reputation for research excellence, for research translation and for building strong relationships with industry partners.

The School of Engineering and Mathematical Sciences (SEMS) has over 70 academic staff and a budget of \$40 million in three departments: Engineering, Computer Science and Information Technology, and Mathematics and Statistics in Melbourne (Bundoora) and Bendigo. The School has a reputation for innovative course design, the maintenance of a supportive student-centred learning environment and an outstanding research profile. The School offers a range of general and specialist undergraduate and postgraduate courses that are rigorous, attuned to emerging trends, and taught by staff at the forefront of their fields. Graduates are valued for the high technical skills they develop during their course and for their ability to adapt to new developments based on sound theoretical and conceptual foundations.

The Department of Engineering has a total of 22 staff and around 600 undergraduate and postgraduate students located in Melbourne and Bendigo campuses. The Engineering discipline at La Trobe continues to expand and revitalise its programs with an innovative curriculum that incorporates strong industry engagement. The department leads various industry sponsored multi-disciplinary research projects with national and international linkages.

La Trobe is a participant in the Athena SWAN Charter to enhance gender equality in Science, Technology, Engineering, and Mathematics disciplines. As such, we especially encourage female applicants to apply.

Level A – Associate Lecturer

A Level A teaching and research academic is expected to contribute to teaching particularly at undergraduate level and to develop their scholarly, research and/or professional expertise relevant to the profession or discipline. In particular the holder of this position must have a good applied electronic/mechatronic engineering capability, and experience, working in, or with, industry.

Please note: The University may require this role to work at other locations outside of their primary place of work.

Duties at this level may include:

- Work with subject coordinators to develop a high quality learning experience that engages students through the delivery of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and/or studio sessions.
- Develop a scholarly approach to learning and teaching (possibly including contribution to disciplinary teaching pedagogy and research).
- Develop subject material with appropriate guidance from the subject or course coordinator.
- Supervise undergraduate and/or graduate diploma class activities, e.g. language lab or practical work.
- Participate in La Trobe curriculum, teaching and learning projects as required.
- Undertake high quality and/or high impact research and industry engagement, relative to experience.

- Assist in obtaining research funding from external sources.
- Provide advice within the field of the employee's research to Honours and postgraduate students.
- Contribute to and uphold a robust and ambitious research and industry engagement culture.
- Carry out administrative functions relating to the role in an effective and responsible manner.
- Contribute effectively to departmental/school meetings and committees.
- Provide service to the profession and/or discipline through professional association memberships.
- Participate as a member of a team working in partnership with local agencies and partners.
- Undertake other duties commensurate with the classification and scope of duties of the position as required by the Head of Department or Head of School.

Key Selection Criteria

ESSENTIAL

- A PhD in Electronic/Mechatronic Engineering. The incumbent would be expected to have:
 - a) A demonstrated understanding and effective application of multi-physical systems modelling;
 - b) An established capability in the design and fabrication of electro-mechanical devices and systems;
 - c) Competence in embedded software development;
 - d) Experience in the development of proof concept prototyping for industry.
- Demonstrated effectiveness in teaching.
- Demonstrated successful application of current and new teaching methods and pedagogies.
- Ability to mentor and supervise undergraduate and honours students.
- A good record of research output, relative to opportunity.
- Industry experience or demonstrated effective involvement in collaborative projects with industry.
- Effective oral and written communication skills, including the ability to interact effectively with people from a diverse range of backgrounds.
- Demonstrated ability to work as a team member in a collaborative and collegial manner.

DESIRABLE:

- Multi-disciplinary expertise.
- Application experience using a variety of electronic/mechanical design tools, including, LabVIEW, Matlab/Simulink, and Solidworks.
- Involvement in the development of industry/university partnership project proposals.

Other relevant information:

- The position description is indicative of the initial expectation of the role and subject to changes to University goals and priorities, activities or focus of the job.

Essential Compliance Requirements

To hold this La Trobe University position the occupant must:

- hold, or be willing to undertake and pass, a Victorian Working With Children Check; AND
- take personal accountability to comply with all University policies, procedures and legislative or regulatory obligations; including but not limited to TEQSA and the Higher Education Threshold Standards.

La Trobe Cultural Qualities

Our cultural qualities underpin everything we do. As we work towards realising the strategic goals of the University we strive to work in a way which is aligned to our four cultural qualities:

- We are **Connected**: We connect to the world outside — the students and communities we serve, both locally and globally.
- We are **Innovative**: We tackle the big issues of our time to transform the lives of our students and society.
- We are **Accountable**: We strive for excellence in everything we do. We hold each other and ourselves to account, and work to the highest standard.
- We **Care**: We care about what we do and why we do it. We believe in the power of education and research to transform lives and global society. We care about being the difference in the lives of our students and communities.

For Human Resource Use Only

Initials: Date: