Lecturer/Senior Lecturer/Associate Professor in Software Engineering

POSITION NO	0063790
CLASSIFICATION	Lecturer – Level B, Senior Lecturer - Level C, or Associate Professor - Level D
SALARY	Level B $119,231 – $141,581 p.a.; Level C $146,050 - $168,403 p.a.; Level D $175,858 - $193,740 p.a.
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full Time
BASIS OF EMPLOYMENT	Continuing
OTHER BENEFITS	https://about.unimelb.edu.au/careers/staff-benefits
HOW TO APPLY	Online applications are preferred. Go to http://about.unimelb.edu.au/careers, select the relevant option ('Current Opportunities' or 'Jobs available to current staff'), then find the position by title or number.
CONTACT FOR ENQUIRIES ONLY	Patanamon Thongtanunam and Leon Sterling Email patanamon.t@unimelb.edu.au and leonss@unimelb.edu.au *Please do not send your application to this contact*

For information about working for the University of Melbourne, visit our website:
about.unimelb.edu.au/careers

Acknowledgement of Country

The University of Melbourne acknowledges the Traditional Owners of the unceded land on which we work, learn and live: the Wurundjeri Woi Wurrung and Bunurong peoples (Burnley, Fishermans Bend, Parkville, Southbank and Werribee campuses), the Yorta Yorta Nation (Dookie and Shepparton campuses), and the Dja Dja Wurrung people (Creswick campus).

The University also acknowledges and is grateful to the Traditional Owners, Elders and Knowledge Holders of all Indigenous nations and clans who have been instrumental in our reconciliation journey.

We recognise the unique place held by Aboriginal and Torres Strait Islander peoples as the original owners and custodians of the lands and waterways across the Australian continent, with histories of continuous connection dating back more than 60,000 years. We also acknowledge their enduring cultural practices of caring for Country.

We pay respect to Elders past, present and future, and acknowledge the importance of Indigenous knowledge in the Academy. As a community of researchers, teachers, professional staff and students we are privileged to work and learn every day with Indigenous colleagues and partners.

FEIT's Commitment to Diversity and Inclusion

The Faculty of Engineering and Information Technology (FEIT) is committed to creating a diverse and inclusive environment that welcomes and values all people. We recognise that diversity is essential in contributing to the success of FEIT. Women, Aboriginal and Torres Strait Islanders, the LGBTIQ+ community, people living with disability and those from a culturally and linguistically diverse background, are strongly encouraged to apply. Those seeking support in submitting an application are welcome to contact the Faculty HR team at feit-hr@unimelb.edu.au

Position Summary

The Faculty of Engineering and Information Technology (FEIT) is seeking academics with expertise in software engineering, particularly in software evolution (e.g., software maintenance, release engineering, DevOps), AI for software engineering (e.g., collaborative AI for SE, trustworthy and sustainable AI for SE), Software engineering for AI (e.g., SE for AI models, code , AI-embedded systems) or related fields, to join the School of Computing and information Systems (CIS).

You will have a substantive position in the School of CIS. You will, independently and as a member of the team, work on all four pillars of an academic career by pursuing internationally leading research, teaching and teaching innovation, engagement with industry and other partner institutions, and taking on leadership roles within the University.   You will join a world-class software engineering research group and work closely with colleagues in internationally respected groups across computer science, artificial intelligence, and information systems.

You will be a scholar and aspiring leader in software engineering with a growing track record of publishing in key conferences and journals (including, but not limited to, ICSE, ASE, FSE, TSE, TOSEM).

1. Key Responsibilities

1.1 RESEARCH AND RESEARCH TRAINING (LEVEL B/C/D)

- Build and sustain a significant research program in software engineering such as software maintenance, an intersection between AI and software engineering.
- Exercise leadership in scholarly research and build interdisciplinary research teams.
- Present research seminars and workshops within the School and in external forums (e.g., international conferences).
- Publish peer-reviewed scholarly papers in reputable international conferences and journals in software engineering.
- Attain external research grant income from both national competitive grants and from industry engagement.
- Supervise graduate research (PhD) projects.
- Build a national and international reputation within the discipline.
- Liaise effectively with collaborators from different disciplines and with internal and external stakeholders.

1.2 TEACHING AND LEARNING (LEVEL B/C/D)

- Coordinate and conduct lectures and tutorials at undergraduate and postgraduate level, including engagement in teaching innovation and improvement;
- Create innovative and authentic assessment tasks to foster student learning;
- Preparation of project work to support student learning;
- Perform marking and assessment duties and take responsibility for supervision of project marking in subjects as lecturer-in-charge;
- Provide adequate access for and effective student consultation to foster student learning;
- Be proactive in the development of subject materials and delivery, including the use of web resources as appropriate;
- Act as Subject Coordinator, with responsibility for the design, development, delivery, and ongoing improvement of the subject;
- Supervise undergraduate or graduate students engaged in coursework or small research projects.
- Contribute to software engineering subjects such as software engineering project subjects, software process and management.

1.3 LEADERSHIP AND SERVICE (LEVEL B/C/D)

- Participate in industry and community liaison activities as arranged by the School;
- Participate in School activities such as student events and school visits;
- Perform other tasks as requested by the supervisor or the Head of School.

1.4 ADDITIONAL RESPONSIBILITIES FOR APPOINTMENT AT LEVEL C AND D

▸ Significant role in research projects including, where appropriate, leadership of a research team;

▸ Actively build and foster partnerships with industry, government, collaborators at other Universities and other stakeholders that contribute to the engagement of teaching and research in the wider community engagement;

▸ Contribute to the development of Masters course work, including development of new subjects.

▸ Provide leadership in the related discipline area.

▸ Create a harmonious workplace environment that is conducive to productivity; that promotes creativity; and rewards and recognises individual and group achievement.

▸ Contribute to strategic planning and policy decision making processes by actively participating on relevant committees;

▸ Provide leadership in the evaluation of curriculum development and renewal at School, Faculty and University level;

1.5 OTHER JOB RELATED INFORMATION

▸ This position requires the incumbent hold a current and valid Working with Children Check. The University of Melbourne is dedicated to safeguarding the welfare of all community members, especially those most vulnerable. As part of our commitment to child safety and in line with the Victorian Child Safe Standards, this position will be required to hold a valid Employee WWCC, regardless of where in the University an employee may work or what work they do.

▸ Occasional work out of ordinary hours, travel, etc.

▸ Undertake Occupational Health and Safety (OH&S) responsibilities as outlined in Section 4.

2. Selection Criteria

2.1 ESSENTIAL (LEVEL B/C/D)

▸ PhD in software engineering, computer science or equivalent;

▸ A track record of high quality research and scholarship in software engineering, as evidenced by research publications in high-quality journals and conferences (including, but not limited to, ICSE, ASE, FSE, TSE, TOSEM).

▸ Demonstrated ability to perform independent research and a commitment to interdisciplinary research;

▸ Experience with undertaking collaborative research projects as part of a team across institutions and/or disciplines especially in the areas of software engineering;

▸ Capacity to teach effectively across a range of subjects, including the capacity to develop and deliver seminars and lectures and contribute to other teaching activities;

▸ Demonstrated ability to coordinate large software engineering project subjects.

- Excellent oral and written communication skills, including the ability to interact with University staff at all levels and to build networks with industry and other researchers, both local and international;

- Ability to work as part of a team, and build rapport with all levels of staff within a diverse work environment; and

- Capability for collaboration and interaction with industry.

- Experience in obtaining competitive research funding, either individually or as part of a team;

2.2 ADDITIONAL CRITERIA FOR APPOINTMENT AT LEVEL C

- A track record of leadership, including the organisation of workshops and conferences, development of enabling resources, and involvement in outreach activities;

- Demonstrated ability to initiate, manage and maintain significant (inter-)institutional collaborations;

- A track record in attracting research funding from competitive grant agencies and other sources including industry;

2.3 ADDITIONAL CRITERIA FOR APPOINTMENT AT LEVEL D

- Building an international reputation in software engineering evidenced through a significant track record of publications in high-impact peer-reviewed and refereed journals, and invitations to speak at national and international meetings;

- Evidence of a significant leadership role of a research team with excellent ability to manage collaborative projects and research activities, involving the management of personnel, timelines and budgets, and relationships with various stakeholders;

- Demonstrate ability in curriculum development and implementation at undergraduate and postgraduate level that will maintain the School's programmes at the highest international standards;

- Exceptional communication and interpersonal skills with the ability to establish and maintain effective working relationships that inspire students and staff and other members of the School, University and wider community;

2.4 DESIRABLE

- A distinguished high-profile international standing of research excellence in software engineering;

- Demonstrated excellence in academic leadership and management including an ability to build strong, sustainable teams;

- An international reputation in leading research innovation and fostering research collaboration with industry and with researchers from other organisations as part of multi-disciplinary teams;

- Proven success in working collaboratively and an ability to engage and build highly productive relationships with corporate executives, staff and diverse stakeholders, both internal and external to the University and the ability to develop these networks at national and international levels;

- Exhibited commitment to the highest standards of scientific and ethical integrity.

- Practical experiences working with industry and research institutes related to research opportunities;

- Experience in development of a new subject and its curriculum related to software engineering or software engineering research

3. *Equal Opportunity, Diversity and Inclusion*

The University is an equal opportunity employer and is committed to providing a workplace free from all forms of unlawful discrimination, harassment, bullying, vilification and victimisation. The University makes decisions on employment, promotion, and reward on the basis of merit.

The University is committed to all aspects of equal opportunity, diversity and inclusion in the workplace and to providing all staff, students, contractors, honorary appointees, volunteers and visitors with a safe, respectful and rewarding environment free from all forms of unlawful discrimination, harassment, vilification and victimisation. This commitment is set out in the Advancing Melbourne strategy that addresses diversity and inclusion, equal employment opportunity, discrimination, sexual harassment, bullying and appropriate workplace behaviour. All staff are required to comply with all University policies.

The University values diversity because we recognise that the differences in our people's age, race, ethnicity, culture, gender, nationality, sexual orientation, physical ability and background bring richness to our work environment. Consequently, the People Strategy sets out the strategic aim to drive diversity and inclusion across the University to create an environment where the compounding benefits of a diverse workforce are recognised as vital in our continuous desire to strive for excellence and reach the targets of Advancing Melbourne.

4. *Occupational Health and Safety (OHS)*

All staff are required to take reasonable care for their own health and safety and that of other personnel who may be affected by their conduct.

OHS responsibilities applicable to positions are published at:

https://safety.unimelb.edu.au/people/community/responsibilities-of-personnel

These include general staff responsibilities and those additional responsibilities that apply for Managers and Supervisors and other Personnel.

5. *Other Information*

5.1   THE SCHOOL OF COMPUTING & INFORMATION SYSTEMS

The School of Computing & Information Systems (CIS) undertakes research and teaching across a range of information technology disciplines including Software Engineering, Information Systems, and Computer Science. CIS is the most highly ranked School of Computing and Information Systems in Australia according to all major rankings (THE, QS, ARWU). It offers a comprehensive range of IT and IS courses at all levels, including offerings in science, engineering, and business, and is at the forefront of computing research in Australia and internationally with close links to major computing research initiatives, including Melbourne Bioinformatics, CSL, The Cremorne Digital Hub and CSIRO's DATA61.

The School's aim is to attract and retain outstanding staff available in order to maintain its lead in research and teaching. We have an existing highly successful research team in the area of the appointment, a large number of PhD students, and a substantial cohort of graduate students in our coursework Masters programs.

To find out more about CIS, visit: http://www.cis.unimelb.edu.au/

5.2 FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY

The Faculty of Engineering and Information Technology (FEIT) has been the leading Australian provider of engineering and IT education and research for over 150 years. We are a multidisciplinary School organised into three key areas; Computing and Information Systems (CIS), Chemical and Biomedical Engineering (CBE) and Electrical, Mechanical and Infrastructure Engineering (EMI). FEIT continues to attract top staff and students with a global reputation and has a commitment to knowledge for the betterment of society.

FEIT has never been better positioned as a global leader, anchored in the dynamic Asia Pacific region, creating and curating knowledge to address some of the world's biggest challenges. Through our students and our relationships with communities, we can not only respond to society's needs but anticipate and create engineering and IT solutions for the future.

https://eng.unimelb.edu.au/
https://eng.unimelb.edu.au/about/join-feit

Our ten-year strategy, FEIT 2025, is our School's commitment to bring to life the University-wide strategy Advancing Melbourne and reinforce the University of Melbourne's position as one of the best in the world.

To achieve our ambitions, we will continue to build new infrastructure to enable our teaching, research and engagement; we continue to recruit outstanding people from around the world; and we continue to attract high-quality students from across the globe who are at the heart of our enterprise.

https://eng.unimelb.edu.au/about/feit-2025

5.3 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a leading international university with a tradition of excellence in teaching and research. The main campus in Parkville is recognised as the hub of Australia's premier knowledge precinct comprising eight hospitals, many leading research institutes and a wide-range of knowledge-based industries. With outstanding performance in international rankings, the University is at the forefront of higher education in the Asia-Pacific region and the world.

The University employs people of outstanding calibre and offers a unique environment where staff are valued and rewarded.

Further information about working at The University of Melbourne is available at http://about.unimelb.edu.au/careers

5.4 ADVANCING MELBOURNE

The University's strategic direction is grounded in its purpose. While its expression may change, our purpose is enduring: to benefit society through the transformative impact of education and

research. Together, the vision and purpose inform the focus and scale of our aspirations for the coming decade.

Advancing Melbourne reflects the University's commitment to its people, its place, and its partners. Our aspiration for 2030 is to be known as a world-leading and globally connected Australian university, with our students at the heart of everything we do.

- We will offer students a distinctive and outstanding education and experience, preparing them for success as leaders, change agents and global citizens.

- We will be recognised locally and globally for our leadership on matters of national and global importance, through outstanding research and scholarship and a commitment to collaboration.

- We will be empowered by our sense of place and connections with communities. We will take opportunities to advance both the University and the City of Melbourne in close collaboration and synergy.

- We will deliver this through building a brilliant, diverse and vibrant University community, with strong connections to those we serve.

The means for achieving these goals include the development of the University of Melbourne's academic and professional staff and the capabilities needed to support a modern, world-class university. Those means require a commitment to ongoing financial sustainability and an ambitious infrastructure program which will reshape the campus and our contribution to the communities we engage with. This strategy, and the priorities proposed, is centred around five intersecting themes; place, community, education, discovery and global.

5.5 GOVERNANCE

The Vice Chancellor is the Chief Executive Officer of the University and responsible to Council for the good management of the University.

Comprehensive information about the University of Melbourne and its governance structure is available at https://about.unimelb.edu.au/strategy/governance