

Position Description

Senior Lecturer, Mathematics



Details

Area	Faculty of Science, Engineering and Built Environment
Team / School	School of Information Technology
Employment	Full-time, ongoing.
Location	Burwood
Classification	Level C
Manager Title	Head of School

Deakin

Deakin is a Victorian university with a global impact. We are agile and innovative, and committed to making a positive impact through our excellence in education and research and the contributions we make to the wider community.

Our reputation has been built on the dedication and expertise of our staff. We offer a dynamic, diverse and inclusive working environment with opportunities to grow and develop careers. We believe that a progressive, thriving culture will ensure people choose to come, and stay at Deakin and contribute to our ongoing success.

As one of Australia's largest universities, Deakin has strong global linkages, world-class research and an education portfolio that blends the best of campus and digital delivery into a highly supportive and personalised student experience.

We offer outstanding education founded on the experience we create for our learners and guided by graduate outcomes for successful lives and careers. We undertake globally significant discovery research that benefits our communities through the innovative translation of our ideas into new services, products, policies and capabilities.

At Deakin we value diversity, embrace difference and nurture an inclusive, safe and respectful community. Deakin is an Employer of Choice for Gender Equality, a SAGE Athena SWAN Bronze Award holder, seeking gender equity for Women in STEMM, and a Silver Award holder in the Australian Workplace Equality Index for LGBTQ inclusion. We strongly encourage applications from Aboriginal and Torres Strait Islander people and people of all cultures, abilities, sexualities and genders.

[Strategic Plan – Deakin 2030: Ideas to Impact](#)

[Benefits of working at Deakin](#)

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Overview

The Senior Lecturer will be responsible for providing leadership in research, teaching and engagement in the area of Mathematics and computer science. The role will promote the School and maintain links and partnerships with relevant academic, industry and professional communities. The appointee will be actively involved in research, teaching and service-related activity. 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.

Responsibilities

Education and Employability

- Integrate industry and research practice into unit/course design in the area of mathematics and computer science
- Lead teaching teams to develop effective unit and course curricula and learning material (including through course leadership roles)
- Lead the development and/or adoption of new innovation in curriculum design within a course
- Deliver learner-centric, research and industry-informed active learning teaching practices across different levels / modes of delivery
- Lead unit and course teaching teams and works collaboratively with other teaching teams in the faculty
- Lead the review of units and courses and implement refinements and updates
- Provide clear assessment rubrics and timely feedback to learners to demonstrate learning outcomes
- Develop effective assessment tasks and rubrics at unit and course level
- Lead the moderation of assessments tasks at the course level and adapts practices to improve learning outcomes
- Apply leading industry and research practice into student learning experiences and resources
- Support diverse learners by designing accessible and inclusive unit and course material and practices
- Integrating and developing new technology for teaching mathematics and computer science to support active learning styles
- Developing and utilizing cutting edge technology to create and deliver mathematics and computer science labs for teaching
- Design collaborative learning opportunities at the unit and course level
- Promotes collaborative learning environments and involve learners, teachers and the community
- Provide academic support to students within units and courses
- Supervise students in multi-disciplinary capstone projects teams
- Build effective unit and course teaching teams
- Conduct mentoring of colleagues to help improve their teaching practices
- Foster a culture of collaboration and educational excellence within the discipline
- Complete Graduate Certificate in Higher Education Learning and Teaching
- Build teaching and learning capability related to discipline, and supports the professional development of other academics

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- Make significant contribution to pedagogy research projects
- Integrate new teaching practices across all aspects of education
- Collaborate with research teams to support efforts to secure resources to fund pedagogical research opportunities

Research and Innovation

- Lead growing, increasingly productive, high-quality research, scholarship and creative activities generating high impact outputs in the area of mathematics and computer science.
- Engage in and increasingly develops and leads academic or other collaborations that enable novel, high-quality research or creative activities
- Widely communicates outputs to discipline(s), other sectors and the community, including nationally and increasingly internationally
- Ensure impact of academic activity in the field and the community
- Make significant contribution to seeking funding for research and creative activities
- Demonstrate sustained national and building international reputation as emerging world leader, based on significant and growing focused body of work, recognised for quality, excellence and impact
- Develop and increasingly leads intra- and inter-disciplinary research collaborations, to enable major breakthroughs in knowledge and understanding and solutions to complex problems
- Develop and increasingly leads industry partnerships and collaborations to enable major breakthroughs, innovative solutions for future translation into real world impact
- Make significant contribution to applications for external competitive and other funding, and demonstrates sustained efforts
- Demonstrate sustained and growing track record of timely delivery of outcomes for industry partners, with growing national recognition
- Develop and leads innovation and translation into policies, frameworks, strategy, priority setting and other outcomes to create positive impact
- Develop and leads innovation and translation into products, services, new ways of operating and other avenues to create positive impact
- Make significant contribution to attraction of external funding for commercialization and translation activities
- Demonstrate sustained portfolio of policy and strategy influence, generation of products, services or other innovations with positive real-world impact
- Demonstrate timely delivery of commercialisation and translation outcomes
- Recruit and supervise Honours and HDR students with timely completions and production, high quality outcomes
- Provide effective mentoring to HDR students and ECRs to support professional and career development and employability
- Develop and implements initiatives that ensure widespread adoption of culture of research excellence, innovation and impact
- Support industry partnerships that provide research students and ECRs with industry experience

University Citizenship and Engagement

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- Lead the implementation of citizenship activities and effectiveness as an influencer/champion at both local and where appropriate, university level
- Contribute to the development of citizenship activities and effectiveness at university level
- Lead the implementation of specific aspects of the strategic agenda
- Lead the implementation of community engagement activities
- Contribute to the development of community engagement activities at university level
- Lead the implementation of the University's community engagement agenda

Relationships

- Internal relationships: School-based Research Labs and Centres, Centre for Cyber Security Research and Innovation (CSRI), Centre for Research in Assessment and Digital Learning (CRADLE), University Research Institutes
- External relationships: National and International Mathematics bodies such as AMSI and the AMS, National and international Computer Science bodies such as Australian Computer Society, Science & Technology Australia (STA), relevant industry and government partners

Selection

Qualifications and experience

- PhD in a relevant discipline and/or advanced qualifications and experience in the relevant discipline area
- Excellent record of scholarly learning and teaching in UG and/or PG programs, including innovative curriculum design and research supervision
- Nationally recognised research reputation underpinned by publications in quality journals and/or exhibitions and/or success in obtaining external research grants
- Positive engagement with research, community, industry and government to enhance the national standing of the discipline
- Demonstrated capacity and passion for leadership of teaching, research and/or administration
- Excellent interpersonal skills and a proven ability to establish good working relationships with colleagues.

Capabilities

- **Digital Literacy:** Interprets and distils information; produces clear communications through a variety of digital platforms
- **Collaboration:** Proactively supports working together, shares ideas and provides constructive feedback; respects and values others
- **Emotional Intelligence:** Recognises emotions in self and others; uses emotional cues to guide thinking and behaviour
- **Building Networks and Partnerships:** Identifies and invests in relationships essential for growth and positive outcomes
- **Communicating with Influence:** Engages and energises others through clear and persuasive communication
- **Personal Resilience:** Maintains composure and focus under pressure, adapts to changing situations and recovers from setbacks

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Special Requirements

- Infrequent travel will be required (e.g., interstate or overseas travel may be required as well as travel within Victoria, including between campuses)
- Working with Children Check (refer to Recruitment Procedure)
- National Police Record Check (refer to Recruitment Procedure)

Note The intention of the position description is to provide an outline of scope and responsibilities, at a point in time. Please note, responsibilities may evolve in accordance with organisational needs.