



ASSOCIATE PROFESSOR

DEPARTMENT/UNIT	Data Science and AI
FACULTY/DIVISION	Faculty of Information Technology
CLASSIFICATION	Level D
WORK LOCATION	Caulfield campus

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 Information Technology** aims to lead global IT research and education. Our strong reputation and international profile attracts the best students worldwide and we offer a range of accredited courses that transform our graduates into highly skilled and sought after IT professionals, equipped to work globally. Our research is multi-disciplinary, multi-campus and multi-national, giving us a unique capacity to reach out further and deeper than any other institution in Australia. Our research priorities are both technically ambitious and embedded in everyday life. To learn more about the Faculty and the exciting work we do, please visit <https://www.monash.edu/it>.

In the information age, data are ubiquitous. Data science extracts value from data assets, helping us understand the past, better manage the present, and effectively plan for the future. It plays a critical role in advancing industry, commerce, governance and research. At Monash IT, we have an unsurpassed breadth and depth of expertise across the broad range of areas that underpin the fast-developing field of data science. Our Data Science Group has more than 40 permanent academic staff backed by a large cohort of project-based researchers and postgraduate students, and includes one of the leading optimisation groups in the world.

Our areas of research expertise include:

- Artificial Intelligence: Bayesian techniques, natural language processing, knowledge acquisition and processing
- Machine Learning: association discovery, causal models, classification, deep learning and forecasting
- Modelling: agent-based modelling and artificial life
- Optimisation: constraint and mixed-integer programming, metaheuristics, modelling languages, nondifferentiable optimisation, resource planning and scheduling, and path finding algorithms
- Visualisation: immersive analytics, interactive visualisation, and layout and presentation

POSITION PURPOSE

A Level D academic is expected to make a significant contribution to all activities of the organisational unit or interdisciplinary area and play a significant role within their profession or discipline. Academics at this level may be appointed in recognition of distinction in their disciplinary area.

Reporting Line: The position reports to the Sub-Group Lead in Dialogue Research

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

Specific duties required of a Level D academic may include:

1. Support the development and implementation of high quality research that will lead to publications in referred journals or with high level academic or commercial publishers and attract competitive external and government funding
2. Supervising and mentoring research students and early career researchers
3. Significant role in research projects including, where appropriate, leadership of a research team
4. Significant contribution to the profession and/or discipline, both nationally and internationally
5. The preparation and delivery of lectures, tutorials, practical classes, demonstrations and workshops including assessment of student assignments and examinations
6. Course coordination including offering guidance to other teaching staff, including sessional staff in teaching unit/s if required, in the initiation and development of course materials
7. Consultation with students and supervision of PhD, honours and postgraduate students
8. Maintain and broaden collaborative partnerships with external agencies both nationally and internationally, making a significant contribution to the profession
9. Actively contribute to partnering with industry and diversifying funding avenues

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
 - A doctoral qualification and/or recognised significant experience in the relevant discipline area

Knowledge and Skills

2. High level of interpersonal skills and a proven ability to establish good working relationships with colleagues, students and members of community and professional bodies
3. An excellent publication record in high-quality journals or equivalent, and outstanding contribution to the discipline
4. Successful track record in obtaining competitive external research funding
5. Record of successful supervision of postgraduate research students and the ability to make a significant contribution to postgraduate training programs
6. Demonstrated excellence in teaching in the relevant discipline area (i.e. through evaluations, innovation in presentation and through curriculum development)

7. Demonstrated leadership in committees and other administrative work and portfolios
8. Demonstrated ability to mentor staff and students
9. Proven ability to promote the discipline internally within the university as well as externally, both nationally and internationally
10. A demonstrated capacity to work in a collegiate manner with other staff in the workplace

OTHER JOB RELATED INFORMATION

- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted
- A current satisfactory Working With Children Check is required

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.