



RESEARCH FELLOW

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

ORGANISATIONAL CONTEXT

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. 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 attract 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 www.monash.edu/it.

Machine learning is the science behind big data, data mining, data science and artificial intelligence. It enables systems to learn from data, identify patterns and make decisions with minimal human intervention. To learn more about machine learning, please visit <https://www.monash.edu/it/our-research/strengths/data-science/machine-learning/home>.

POSITION PURPOSE

This Level-B position is a research and development position. The successful candidate is expected to carry out independent and/or team research within their field of expertise, as well as support the creation of software to support the probabilistic and deep machine learning theme within the Machine Learning sub-group. Ideally, the successful candidate would do research in time series and the development part of the position would flow naturally with the research part, under the direction of academic staff or senior research fellows within the Data Science and AI group.

Reporting Line: The position reports to the senior academic, Data Science and AI

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

Specific duties required of a Level B research-only academic may include:

1. Development of software for probabilistic and deep machine learning
2. The conduct of research either as a member of a team or independently and the production of conference and seminar papers and publications from that research
3. Supervision of research-support staff involved in the staff member's research
4. Guidance in the research effort of junior members of research-only Academic staff in their research area
5. Contribution to the preparation or, where appropriate, individual preparation of research proposal submissions to external funding bodies
6. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise
7. Administrative functions primarily connected with their area of research
8. Occasional contributions to the teaching program within the field of the staff member's research
9. Co-supervision or, where appropriate, supervision of major honours or postgraduate research projects within the field of the staff member's area of research
10. Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental, school and/or faculty meetings and/or membership of a limited number of committees

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
 - A doctoral qualification in Computer Science discipline; or
 - equivalent qualifications or research experience

Knowledge and Skills

2. Demonstrated experience developing and releasing open-source software
3. Demonstrated manuscript preparation skills; including a solid track record of refereed research publications
4. The ability to work both independently in a research environment and as part of an inter-disciplinary research team
5. High level organisational skills, with demonstrated capacity to establish and achieve goals
6. Excellent written and oral communication skills
7. A demonstrated capacity to work in a collegiate manner with other staff in the workplace
8. Advanced computer skills

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

GOVERNANCE

Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.