MONASH University

Position description

Research Fellow

Department/Unit	Faculty of Information Technology
Faculty/Division	Clayton School of Information Technology
Classification (salary rates)	Level B
Work location	Clayton campus
Date document created or updated	20 July 2017

Organisational context

Monash is a university of transformation, progress and optimism. Our people are our most valued asset, with our academics among the best in the world and our professional staff revolutionising the way we operate as an organisation.

For more information about our University and our exciting future, please visit 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 our website: www.infotech.monash.edu.au/

Position purpose

This position supports several projects funded by the US Air Force Research Laboratories and by the Australian Research Council. The appointee will conduct research into Time Series Classification and Learning from data streams.

The role also interacts with the staff of the School, industry partners, members of the wider University, including partners, international members of the research team, external contacts within Australia and the international research community.

A Level B research-only academic is expected to carry out independent and/or team research within the field in which he/she is appointed and to carry out activities to develop her/his research expertise relevant to the particular field of research.

Reporting Line: This position reports to Professor Geoff Webb and Dr Francois Petitjean under broad direction

Supervisory responsibilities: Not applicable

Financial delegation and/or budget responsibilities: Not applicable

Key responsibilities

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

1. 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 incorporating the following:

   - development of machine learning theory and algorithms for time series classification
   - development of machine learning theory and algorithms for classification from streams of data in the presence of drift
   - design and implementation of research open-source software
   - design and conducting experiments

2. Supervision of research-support staff involved in the staff member's research

3. Contribution to the preparation or, where appropriate, individual preparation of research proposal submissions to external funding bodies

4. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise

5. Administrative functions primarily connected with her/his area of research

6. Occasional contributions to the teaching program within the field of the staff member's research

7. Co-supervision or, where appropriate, supervision of major honours or postgraduate research projects within the field of the staff member's area of research and

8. 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 incumbent should possess:

   - a PhD in Computer Science or a related discipline from a recognised university and subsequent qualifications and research experience in the area
   - an equivalent combination of relevant experience and/or education/training

Knowledge and Skills

2. Demonstrated strong record of publications, conference papers, reports and/or professional and/or technical contributions in the relevant discipline area

3. Strong programming skills in either Java/C++/C#/Scala

4. Ability to work independently in a research environment

5. Ability to work as part of a team

6. Ability to prepare and communicate the aims and outputs of research projects in a range of formats

7. High level organisational skills, with demonstrated capacity to establish and achieve goals

8. Excellent written and oral communication skills

Other job related information

- Travel (e.g. to other campuses of the University) may be required
- There may be peak periods of work during which the taking of leave may be restricted

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.