Research Fellow – Blockchain Research

Department/Unit	
Faculty/Division	Faculty of Information Technology
Classification	Level A
Work location	Caulfield campus
Date document created or updated	19 October 2017

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 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 www.monash.edu/it

Position purpose

Monash University has established a joint research lab with Hong Kong Polytechnic University and an Australian-based FinTech company. The Research Fellow within the research lab contributes to a project about post-quantum cryptographic algorithms in blockchain. Further, it is expected the incumbent role contributes towards the research effort of the university and develops her/his research expertise through the pursuit of defined projects relevant to the particular field of research.

Reporting Line: the position the role reports to the supervisor and the extent of direction required

Supervisory responsibilities: nil

Financial delegation and/or budget responsibilities: nil

Key responsibilities

1. The conduct of research under limited supervision either as a member of a team or, where appropriate, independently and the production or contribution to the production of conference and seminar papers and publications from that research

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

3. Limited administrative functions primarily connected with the area of research of the academic

4. Development of a limited amount of research-related material for teaching or other purposes with appropriate guidance from other staff

5. Occasional contributions to teaching in relation to her/his research project(s)

6. Experimental design and operation of advanced laboratory and technical equipment or conduct of advanced research procedures

7. 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

8. Advice within the field of the staff member's research to postgraduate students

Key selection criteria

Education/Qualifications

1. The incumbent should possess:
   - a PhD in Post-quantum cryptography, zero-knowledge protocol, blockchain or cryptocurrency or a related discipline from a recognised university or equivalent qualifications and research experience in the area
   - an equivalent combination of relevant experience and/or education/training

Knowledge and Skills

2. The ability to work independently in a research environment (with limited supervision)

3. The ability to work as part of a team

4. The ability to prepare and communicate the aims and outputs of research projects in a range of formats including formal and informal oral presentations, refereed research papers and reports

5. Well-developed computer literacy (i.e. word processing and use of databases)

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
- Possession of a current Victorian driver licence is desirable

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.