SENIOR RESEARCH FELLOW

DEPARTMENT/UNIT	Cybersecurity and Systems
FACULTY/DIVISION	Information Technology
CLASSIFICATION	Level C
WORK LOCATION	Monash 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 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.infotech.monash.edu.au/.

POSITION PURPOSE

The Senior Research Fellow will support the ARC Laureate with overall programme management, working with the Project Officer. They will co-supervise the Research Fellows and some of the PhDs, lead the work on the development of a new taxonomy of human-centric software requirements, and contribute to the new Domain-Specific Visual Languages to model these requirements. The Senior Research Fellow will also contribute the work in augmenting design models with human-centric requirements and lead the work in using these human-centric requirements in software testing and defect reporting. They will lead the work on industry trials of programme processes, models and software.

As well, the Senior Research Fellow will take a leading role in the implementation of a number of development workshops for researchers and practitioners which will be conducted to support ways to improve diversity in

software engineering, better incorporating diverse human perspectives into software engineering processes as well as improving the appreciation and diversity of software engineers.

In conjunction with the Project Officer, Research Fellows and PhDs, the Senior Research Fellow will provide oversight of the programme's creation and dissemination of new open datasets, software processes, and software. Target domains and collaborators are likely to include digital health apps and software; smart cities apps and software e.g. transport, utilities, government services; and smart homes and education apps and software. The Senior Research Fellow will work not only with Laureate programme team members but also other human-centric software engineering projects and teams at Monash University, and collaborate with a range of our international research partners.

While the role is research-focused, a small amount of teaching, ideally aligned to the programme goals and in software engineering areas, can be accommodated depending on the Senior Research Fellow's interest and opportunities. At the least, supervision of related research projects by Honors and Masters students will be expected.

In line with this Laureate programme's aims to improve the incorporation of human diversity into software engineering processes and engineered software, a diverse team is desired. Applications from people from underrepresented groups are strongly encouraged. While the role is intended to be full-time, a part-time role or job shared role will also be considered for the best candidate(s).

Reporting Line: The position reports to the ARC Laureate

Supervisory Responsibilities: Co-supervise 3-4 Research Fellows, Co-supervise 3-4 PhDs

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

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

1. The conduct of research either as a member of a team or independently and the production of journal, conference and seminar papers and publications from that research

2. Guidance in the research effort, where appropriate, of junior members of research-only Academic staff in their research area

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 their area of research

6. Occasional contributions, where appropriate, 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

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 appointee will have:

- A doctoral qualification in the relevant discipline area; or
- equivalent qualifications or research experience

Knowledge and Skills

2. Demonstrated manuscript and research proposal preparation skills; including a solid track record of refereed research publications

3. Deep knowledge of software engineering research and practice. Some software development experience in industry would be very advantageous but not necessarily required.

4. Experience in supervising and working with PhD, honours or postgraduate students within the discipline

5. The ability to work both independently in a research environment and as part of an inter-disciplinary research team

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

7. Excellent written and oral communication skills

8. 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

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.