



# RESEARCH FELLOW

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| DEPARTMENT/UNIT  | Digital Health         |
| FACULTY/DIVISION | Information Technology |
| CLASSIFICATION   | Level B                |
| WORK LOCATION    | Clayton campus         |

## ORGANISATIONAL CONTEXT

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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](http://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](http://www.infotech.monash.edu.au).

**Digital health** is a cross-faculty and cross-university research growth area. We conduct multidisciplinary, participatory research based on innovative computer science, software engineering, information and knowledge management systems. We focus on approaches and techniques to address a range of research problems from very technical issues, to those involving people, data about people, and the impact on people.

Our researchers are engaged in a broad spectrum of socio-technical projects that address issues in patient-doctor interaction, optimal treatment decisions, patient-centred health monitoring and the creation of trustworthy data sharing and integration across healthcare systems and organisations.

Monash IT will be an integral part of the Victorian Heart Hospital project. Located in the Monash Precinct, the hospital will provide high-value med- tech innovation, delivering significant community health benefits.

We've also invested in a 'Health SensiLab', a collaboration with Monash Art, Design and Architecture that allows design researchers and computer scientists to be embedded with clinicians in order to develop new approaches for technology trials in healthcare.

## POSITION PURPOSE

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The Research Fellow will focus on researching and creating novel prototype software to support the high-level objectives of the clinical staff in remote care contexts – identify key requirements, design, implement and evaluate a secure and efficient remote care system to support clinical staff to conduct more effective and efficient video consultations. This includes exploring the integration of diverse medical device data with web video technologies, suitable user interfaces for multi-modal data, use of data analysis on multiple data feeds, and support for collaborative consultations.

The position works with clinical staff to understand the actual needs of the remote care system, and to deploy a prototype of the system for on-site evaluation. The integration of diverse disciplines (such as security and mobile computing) within the clinical environment should also lead to the emergence of creative methods for the use of technology within the healthcare setting.

**Reporting Line:** The position reports to the Lecturer, Cyber Security and Systems

**Supervisory Responsibilities:** Not applicable

**Financial Delegation:** Not applicable

**Budgetary Responsibilities:** Not applicable

## KEY RESPONSIBILITIES

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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
2. Guidance in the research effort 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 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

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### 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 statistical analysis and manuscript and research proposal preparation skills; including a solid track record of refereed research publications
3. Strong programming skills in Python, Java or other modern programming languages

4. Experience in supervising and working with major 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**

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- 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

## **LEGAL COMPLIANCE**

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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.