ORGANISATIONAL CONTEXT

At Monash, work feels different. There’s a sense of belonging, from contributing to something groundbreaking – a place where great things happen. You know you’re part of something special and purposeful because, like Monash, your ambitions drive you to make change.

We have a clear purpose to deliver groundbreaking intensive research; a world-class education; a global ecosystem of enterprise – and we activate these to address some of the challenges of the age, Climate Change, Thriving Communities and Geopolitical Security.

We welcome and value difference and diversity. When you come to work, you can be yourself, be a change-maker and develop your career in exciting ways with curious, energetic, inspiring and committed people and teams driven to make an impact – just like you.

Together with our commitment to academic freedom, you will have access to quality research facilities, infrastructure, world class teaching spaces, and international collaboration opportunities.

We champion an inclusive workplace culture for our staff regardless of ethnicity or cultural background. We have also worked to improve gender equality for more than 30 years. Join the pursuit of our purpose to build a better future for ourselves and our communities – #ChangeIt with us.

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 multidisciplinary, multi-campus and multinational, 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.
We’re in the midst of an information revolution – a period of explosive change. The Department of Human Centred Computing (HCC) is helping to project, shape and create this daily technology revolution.

Through our innovative IT research, we bring together people and advanced technology in the pursuit of a smarter digital future. We are Australia’s leading data visualization and interaction design research department, and pioneers in the field of immersive analytics.

For us, the user is the star of the project. Our design is built around advanced visualization, interaction, digital design and fabrication, and immersive analytics. We explore how new interaction and visualisation technologies such as augmented reality and virtual reality can support collaborative decision making and data analytics. To learn more about the Department of Human-Centred Computing, please visit our website.

POSITION PURPOSE

A Level A research-only academic is expected to contribute towards the research effort of the University and to develop their research expertise through the pursuit of defined projects relevant to the particular field of research.

The Research Fellow will work on aspects of the ARC funded Discovery Project “Accessible Data Exploration and Analysis for Blind People” related to Language Technology, focusing on the development of a Dialogue Manager, a Multi-modal interpreter and a Multi-modal generator. These components will combine input to and output from a novel Refreshable Tactile Device with spoken information with an emphasis on generating accurate responses.

The Research Fellow will also assist with the evaluation of the system, the supervision of PhD student(s) and take a lead role writing research papers from the project.

Reporting Line: The position reports to the lead Chief Investigator

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

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

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 their 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
9. Other duties as directed from time to time

**KEY SELECTION CRITERIA**

**Education/Qualifications**

1. The appointee will have:
   - A PhD qualification in Dialogue Management, Natural Language Understanding or Natural Language Generation (in particular, generating explanations).

**Knowledge and Skills**

2. Demonstrated experience in traditional and neural techniques for Natural Language Processing, development of conversational agents, and designing and implementing user studies

3. Demonstrated analytical and manuscript preparation skills, including a track record of refereed research publications

4. Ability to solve complex problems by using discretion, innovation and the exercise diagnostic skills and/or expertise

5. Well-developed planning and organisational skills, with the ability to prioritise multiple tasks and set and meet deadlines

6. Excellent written communication and verbal communication skills with proven ability to produce clear, succinct reports and documents

7. A demonstrated awareness of the principles of confidentiality, privacy and information handling

8. A demonstrated capacity to work in a collegiate manner with other staff in the workplace

9. Demonstrated computer literacy and proficiency in the production of high-level work using software such as Microsoft Office applications and specified university software programs, with the capability and willingness to learn new packages as appropriate

10. Excellent programming skills in languages such as Python, Java, JavaScript, Matlab and R

**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.