



# RESEARCH FELLOW - DIALOGUE RESEARCH

<b>DEPARTMENT/UNIT</b>	Data Science
<b>FACULTY/DIVISION</b>	Faculty of Information Technology
<b>CLASSIFICATION</b>	Level A
<b>WORK LOCATION</b>	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/).

The Faculty of Information Technology is establishing a new research group, The Laboratory for Dialogue Research (LDR) led by Professor Phil Cohen. The LDR has close partnerships with Monash's new HCI Group, its renowned Centre for Data Science, the Engineering School, and with numerous universities in Australia and worldwide. Importantly, we plan to engage with interested industry, philanthropic, and government partners on problem, data, and tool selection and development of scalable approaches. LDR's Director is Prof. Phil Cohen, a AAAI Fellow and internationally known pioneer in natural language dialogue, multiagent systems, and multimodal interaction. The project that ultimately became SiriTM started in his laboratory at SRI International in 1993.

## POSITION PURPOSE

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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 incumbent to this position will assist with conducting a variety of research that will contribute to the LDR's plans to design, build, and evaluate state-of-the-art dialogue systems based on a variety of AI technologies such as Natural Language Processing (semantic parsing, generation), Machine Learning (deep learning, reinforcement learning, Bayesian networks, etc.), Multi-Agent Systems (planning, plan recognition, collaboration), and Multimodal Interaction (fusion of spoken language, vision, gesture), etc.

**Reporting Line:** The position reports to Professor Phil Cohen

**Supervisory Responsibilities:** Not applicable

**Financial Delegation:** Not applicable

**Budget Responsibilities:** Not applicable

## **KEY RESPONSIBILITIES**

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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

## **KEY SELECTION CRITERIA**

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### **Education/Qualifications**

1. The appointee will have:
  - An honours degree or higher qualifications in the relevant discipline and/or progress towards a doctorate in the relevant discipline; or
  - a doctoral qualifications in the relevant discipline or a closely related field

### **Knowledge and Skills**

2. Demonstrated analytical and manuscript preparation skills; including a track record of refereed research publications {may not apply to all areas of the University}
3. Ability to solve complex problems by using discretion, innovation and the exercise diagnostic skills and/or expertise
4. Well-developed planning and organisational skills, with the ability to prioritise multiple tasks and set and meet deadlines

5. Excellent written communication and verbal communication skills with proven ability to produce clear, succinct reports and documents
6. A demonstrated awareness of the principles of confidentiality, privacy and information handling
7. A demonstrated capacity to work in a collegiate manner with other staff in the workplace
8. 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

## **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.