



## Research Fellow (Polymer & Biomaterials)

<b>Department/Unit</b>	Chemical Engineering
<b>Faculty/Division</b>	Engineering
<b>Classification</b>	Level B
<b>Work location</b>	Clayton campus
<b>Date document created or updated</b>	2018

### 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](http://www.monash.edu)

The **Faculty of Engineering** is one of the largest in Australia, renowned worldwide for the quality and calibre of our teaching, research and graduates. We offer a comprehensive range of undergraduate, graduate, postgraduate and higher degree by research programs in a wide range of engineering disciplines. Our research activities provide a platform for establishing a thriving educational enterprise and our staff are committed to creating a dynamic learning environment. The research activities range from fundamental studies to research with a strong applications orientation.

To The **Department of Chemical Engineering** is very active in both undergraduate teaching and postgraduate research and has an international reputation for its quality research programs and postgraduate training. The objectives of the Department are to provide high quality programs in Chemical Engineering for undergraduate and postgraduate students as well as undertaking and publishing high quality research. For more information about us and the work we do, [please visit our website](#). learn more about the Faculty of Engineering, [please visit our website](#).

### Position purpose

A Level B research-only academic is expected to carry out independent and/or team research within the field in which they are appointed and to carry out activities to develop their research expertise relevant to the particular field of research.

The successful candidate will conduct research in the areas of materials and biomaterials science and engineering, manage key laboratory equipment, and help to mentor and train postgraduate and undergraduate research students. The candidate will also help to manage research collaborations with other academic groups, local industry, and international corporations.

**Reporting Line:** The position reports to Professor Mark Banaszak Holl

**Supervisory responsibilities:** This position will assist in the supervision of multiple postgraduate and undergraduate research students.

**Financial delegation and/or budget responsibilities:** The position will assist in managing grant and contract research budgets.

## **Key responsibilities**

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. Supervision of research-support staff involved in the staff member's research
3. Guidance in the research effort of junior members of research-only Academic staff in their research area
4. Contribution to the preparation or, where appropriate, individual preparation of research proposal submissions to external funding bodies
5. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise
6. Administrative functions primarily connected with their area of research
7. Occasional contributions to the teaching program within the field of the staff member's research
8. Co-supervision or, where appropriate, supervision of major honours or postgraduate research projects within the field of the staff member's area of research
9. 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 statistical analysis and manuscript and research proposal preparation skills; including a solid track record of refereed research publications
3. Experience in successfully supervising, mentoring and coaching to support the development of research staff and/or a demonstrated trajectory of leadership capability
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. Demonstrated capability in positively contributing to and managing laboratory meetings.
9. A demonstrated capacity to work in a collegiate manner with other staff in the workplace
10. Advanced computer skills with experience using Microsoft Word, Excel and PowerPoint; expertise in MATLAB, AFM analysis software, and ImageJ is desirable.
11. Expertise in operating Scanning Probe Microscopes highly desirable.
12. Expertise in polymer preparation and characterization highly desirable; expertise in handling biological tissue highly desirable.

## **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
- International travel for research collaborations and training may be required.
- Ability to attend video research meetings with North American research labs required.

## **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.