

# SENIOR LECTURER OF PROCESS DESIGN AND OPTIMISATION

DEPARTMENT/UNIT	Chemical and Biological Engineering
FACULTY/DIVISION	Faculty of Engineering
CLASSIFICATION	Level C
DESIGNATED CAMPUS OR LOCATION	Clayton campus

## ORGANISATIONAL CONTEXT

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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 are part of something special and purposeful because, like Monash, your ambitions drive you to make change.

We have a clear purpose to deliver ground-breaking 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 – [#Changelt](#) with us.

The **Faculty of Engineering** is the #1 Engineering School in Australia\*, renowned worldwide for the quality and caliber of our teaching, research and graduates. We offer a comprehensive selection 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 learn more about the Faculty of Engineering, please visit our [website](#).

The Monash Department of Chemical and Biological Engineering is the #1 Chemical Engineering Department in Australia\*. We are active in both undergraduate teaching and postgraduate research and have an international reputation for quality research programs and postgraduate training. We maintain strong links with engineering professionals and professional bodies to ensure our programs remain at the leading edge of professional practice. This ensures we have a vibrant research culture, with key research areas in; Biotechnology, Food, Process modelling, Nanomaterials, Fuels and Energy, CO2 utilization, Waste processing, Critical minerals and Membranes. For more information about us and the work we do, please visit our [website](#).

We are committed to equitable decision making and apply the principles of [achievement relative to opportunity](#) in our selection processes.

We strive to provide a welcoming and open culture that is inclusive of students and staff of diverse genders, sexes, sexualities, religions and cultures, and people with disabilities. We welcome applications from individuals representing these diverse groups. In accordance with Monash University's commitment to Athena Swan principles, we particularly encourage applications from females. Monash University supports staff with young children and caregiving responsibilities through a range of programs, policies and resources [www.monash.edu/gender-equity/parents](http://www.monash.edu/gender-equity/parents).

## POSITION PURPOSE

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A Level C academic is expected to make significant contributions to the teaching effort of a department, school, faculty or other organisational unit or an interdisciplinary area. An academic at this level is also expected to play a major role in scholarship, research and/or professional activities.

**Reporting Line:** The position reports to the Head of Department

**Supervisory Responsibilities:** Not applicable

**Financial Delegation:** Not applicable

**Budgetary Responsibilities:** Not applicable

## KEY RESPONSIBILITIES

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Specific duties required of a Level C academic may include:

1. The conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and/or studio sessions
2. Initiation and development of course material
3. Course coordination
4. The preparation and delivery of lectures and seminars
5. Supervision of major honours or postgraduate research projects
6. Supervision of the program of study of honours students and of postgraduate students engaged in course work
7. The conduct of research
8. Significant role in research projects including, where appropriate, leadership of a research team
9. Involvement in professional activity
10. Consultation with students
11. Broad administrative functions

12. Marking and assessment
13. Attendance at departmental, school and/or faculty meetings and a major role in planning or committee work
14. Other duties as directed from time to time

## **KEY SELECTION CRITERIA**

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### **Education/Qualifications**

1. The appointee will have:
  - A doctoral or master's qualification in the relevant discipline area or equivalent accreditation and standing and/or recognised experience in the relevant discipline area. Relevant industry experience will be valued.

### **Knowledge and Skills**

2. Ability to teach core Chemical and Biological Engineering units including process design, multi-objective process optimization, sustainable processing; evidence of knowledge of process control, and particle technology and related modelling is preferable
3. Possess a high level of communication, interpersonal skills and demonstrated ability to work independently and as part of a team across both the education and service sectors
4. Demonstrated decent record of teaching experience in a tertiary environment including course coordination
5. Publication record in high-quality refereed journals, conferences equivalent textbooks or teaching resources
6. Demonstrated ability in undertaking outstanding research and leading a research team and project
7. Proven record of obtaining external grants for research
8. Demonstrated decent record of successfully supervising postgraduate research students
9. Ability to work positively and cooperatively with students, internal and external teams and external organisations
10. Demonstrated ability to motivate, actively engage and educate a given audience

## **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
- A current satisfactory Working With Children Check is required

## **GOVERNANCE**

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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.