



## Professor (Mining Engineering)

<b>Department/Unit</b>	Civil Engineering
<b>Faculty</b>	Faculty of Engineering
<b>Classification</b>	Level E
<b>Work location</b>	Clayton campus
<b>Date document created or updated</b>	October 2017

### Organisational context

Monash is full of thinkers and doers who are looking for their next challenge. So if you've forged a rewarding career so far, this role provides the perfect platform to join us. You'll have access to quality research facilities, infrastructure and teaching spaces to do exciting work, along with opportunities to collaborate internationally. You'll be part of a university that's made up of inspirational, challenging thinkers and doers – and continue doing work that makes a lasting impact. Discover more at [www.monash.edu](http://www.monash.edu)

The **Faculty of Engineering** is one of the best 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.

The faculty has five departments operating from the Clayton campus of Monash University – Chemical Engineering, Civil Engineering, Electrical and Computer Systems Engineering, Materials Engineering and Mechanical and Aerospace Engineering. The School of Engineering operates from the Malaysian campus. In addition, there are 15 research institutes and centres with researchers involved in more than 12 cross institutional centres focusing on key technologies. Monash Engineering also has strong links with other research organisations, including CSIRO and DSTO.

A member of the influential Group of Eight (Go8) research universities, the Faculty of Engineering is involved in extensive research activities. To support this activity and the teaching program the faculty has well-equipped laboratories and many items of world-class infrastructure, from advanced imaging and visualisation facilities and electron microscopes, to one of the best rock-mechanics laboratories in the southern hemisphere. To learn more about the Faculty of Engineering, please visit our website: [www.eng.monash.edu.au](http://www.eng.monash.edu.au)

The **Department of Civil Engineering** at Monash University enjoys an international reputation for education and research in the six major disciplines of Geotechnical Engineering, Structural Engineering, Transport Engineering, Water Engineering, Environmental Engineering and Resources Engineering. The department has considerable physical facilities supporting its research and teaching activities, and is constantly evaluating and upgrading these facilities in order to meet the level appropriate to the contemporary practice of engineering. For more information about us and the work we do, please visit our website: [www.eng.monash.edu.au/civil](http://www.eng.monash.edu.au/civil)

Based in the Civil Engineering Department, the **Resources Engineering Program** offers degrees in mining engineering, geological engineering, oil & gas engineering and renewable energy engineering. The program is expanding its base of high profile researchers working in all areas of resources engineering.

## Position purpose

The Professor is a recognised international leader and is expected to provide academic leadership to all activities and developments of the Faculty of Engineering particularly in Mining Engineering, playing a significant role within their discipline. Academics at this level are expected to show strong leadership in research and teaching. This is an opportunity to be a part of shaping the future of mining engineering and resources education and research at Monash University.

The Professor will lead and contribute to research programs in their area of expertise; drive educational innovation, curriculum design and review; undertake academic duties including lecturing and some administration of undergraduate and postgraduate teaching programs; and supervise post-graduate research students.

**Reporting Line:** The position reports to the Head of Department, Civil Engineering, under broad direction, working with a considerable degree of autonomy

**Supervisory responsibilities:** Not applicable

**Financial delegation and/or budget responsibilities:** Not applicable

## Key responsibilities

Specific duties required of a Level E academic will include:

1. Actively engaging in a specialist research area, in line with the department's research strategy, by maintaining a substantial active publications record (high-quality refereed journals), obtaining research funding, and supervising and mentoring early career researchers and research students
2. Significant contribution to the department's undergraduate and postgraduate programs, in a manner that influences, motivates and inspires to learn
3. Contribution to scholarly debate within the profession (e.g. publishing in practice journals), production of quality research that has industry relevance, and presentation of research results at international forums
4. Provide strong and committed leadership in teaching (making a distinguished personal contribution to the teaching program at undergraduate and graduate levels) curriculum development and research training
5. Contribute at a senior level to the Faculty's curriculum planning and development processes, academic committees, and relevant examination processes in addition to monitoring the quality of individual teaching at a high level in the relevant discipline
6. Provide innovative and effective leadership for the expansion of the faculty's HDR program by attracting high quality HDR students
7. Contribute to academic and administrative leadership within the faculty by participating in the development of policy and strategy and taking a leadership role in the faculty's academic communities where appropriate
8. Foster research excellence through procuring competitive research grants and industrial monies, leading significant research projects and working with other staff to develop research links and encourage success
9. Maintain and broaden collaborative partnerships with relevant faculties and departments/schools within the University with external agencies both nationally and internationally, making a significant contribution to the profession and further advancing the discipline
10. Actively contribute to partnering with industry and diversifying funding avenues

## Key selection criteria

### Education/Qualifications:

1. The appointee will possess:
  - undergraduate and doctoral degrees, or equivalent accreditation and standing, and recognised as a leading authority in a relevant discipline

### Knowledge and skills:

2. Evidence of outstanding international scholarly activity in Mining Engineering and a demonstrated ongoing commitment to one or more programs of research

3. Demonstrated international recognition for scholarly and professional achievement in the relevant discipline area and outstanding contribution to teaching and/or research and/or industry partnerships
4. Demonstrated ability to generate research income, including from both traditional and more innovative sources of research funding
5. A record of successful supervision of postgraduate research students and the ability to make a significant contribution to postgraduate training programs in Mining Engineering
6. Proven excellence in teaching at both undergraduate and postgraduate levels, short-courses and professional development
7. Proven professional leadership qualities and capacity for executive administrative responsibilities and the willingness to make a substantial contribution to all activities of the department, including administration and planning
8. Highly developed communication, liaison and networking skills, with evidence of sustained relationships with industry, business, government agencies, and professional bodies as relevant to Mining Engineering
9. A vision for the future needs and development of Mining Engineering within Australia and internationally and evidence of ability in, and commitment to, the promotion of the discipline to potential students and the wider community
10. Proven ability to plan, organise and achieve work targets, sometimes in demanding circumstances, and work harmoniously and constructively with academic colleagues and other University staff

## **Other job related information**

- Travel (e.g. to other campuses of the University) may be required
- Out of hours work (including evenings, weekends and public holidays) may be required
- There may be peak periods of work during which the taking of leave may be restricted

## **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