



Associate Professor (Mining Engineering)

Department/Unit	Civil Engineering
Faculty/Division	Faculty of Engineering
Classification	Level D
Work location	Clayton campus
Date document created or updated	September 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

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 large infrastructure, from advanced imaging and visualisation facilities and electron microscopes, to the largest wind tunnel in the southern hemisphere. To learn more about the Faculty of Engineering, please visit our website: 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

The **Resources Engineering Program** offers degrees in mining engineering, geological engineering, oil & gas engineering and renewable energy engineering. The program has active leading high profile researchers working in all areas of resources engineering.

Position purpose

The Associate Professor will be a recognised national leader and is expected to make significant contributions to all activities and developments of the Faculty of Engineering, particularly in Mining Engineering. They will be expected to play a significant role within their profession or discipline, Academics at this level may be appointed in recognition of distinction in their disciplinary area. This is an opportunity to be a part of shaping the future of mining resources education and research at Monash University.

The Associate Professor will be required to lead and contribute to research programs in their area of expertise. The role is also responsible for driving educational innovation, curriculum design and review as well as undertaking academic duties that include lecturing and some administration of undergraduate and postgraduate teaching programs and supervision of 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 D academic will include:

1. The conduct of research in line with the department's research strategy, including leadership of research teams, producing high quality publications from research funded by competitive grant schemes or industry
2. Significant contribution to the Faculty's undergraduate program, in a manner that influences, motivates and inspires to learn
3. Playing a leadership role in curriculum, resource, program and subject design, development, management and accreditation as required to ensure that learning and teaching reflects best practice and a command of the field
4. Course coordination and course content and delivery enhancement, including the preparation and delivery of lectures, conduct of tutorials, demonstrations, student field excursions and laboratory sessions
5. Consultation with students including marking and assessment of coursework and guidance on areas of development
6. Supervision of the program of study of postgraduate students engaged in course work, and supervision, support and guidance to postgraduate research projects
7. 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 national and international forums
8. Involvement in professional activities such as networking and industry events to stay abreast of academic and industry changes and developments and how these can be applied at Monash
9. Attend and contribute to departmental, school and/or faculty meetings and play a major role in planning or committee work
10. Broad administrative functions; the majority of which are connected with the subjects in which the academic teaches

Key selection criteria

Education/Qualifications:

1. The appointee will possess:
 - undergraduate and doctoral degrees in Mining Engineering or a closely related discipline

- outstanding national recognition for demonstrable scholarly and professional achievement in the relevant discipline area and outstanding contribution to teaching and/or research and/or industry partnerships

Knowledge and skills:

2. Demonstrated experience and proven ability in undertaking outstanding research and taking a lead role in research, scholarship and teaching matters
3. Outstanding publication record in high-quality refereed journals, conferences, equivalent textbooks or teaching resources
4. Evidence of securing significant nationally-competitive grants and/or other sources of funding for research
5. Demonstrated record of successfully supervising postgraduate research students to completion
6. Demonstrated experience in leading the development and delivery of high quality teaching and curriculum, at the undergraduate and postgraduate level, with positive student feedback
7. High-level written and verbal communication skills and proven ability to establish a good working relationship with colleagues and students, and to develop and maintain strong professional links with relevant industry and the community
8. Evidence of sustained relationships including with relevant industry, business, government agencies and professional bodies
9. 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
10. Proven professional leadership qualities and capacity for executive administrative responsibilities, and a willingness to make a substantial contribution to all activities of the department, including administration and planning

Other job related information

- Travel (e.g. to other campuses of the University) may be required
- Block teaching at one of our international campuses may be required from time to time
- 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