

Position description

Senior Lecturer (Structural Engineering)

Department/Unit	Civil Engineering
Faculty/Division	Faculty of Engineering
Classification	Level C
Work location	Clayton campus

Organisational context

Monash is a university of transformation, progress and optimism. Our people are our most valued asset, with our academics among the best in the world and our professional staff revolutionising the way we operate as an organisation. For more information about our University and our exciting future, please visit www.monash.edu

The Faculty of Engineering is one of the top 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 Science and 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 strong floor and wind tunnel in the southern hemisphere. To learn more about the Faculty of Engineering, please visit our [website](#).

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. It has 35 academic staff, 27 professional staff, 18 research staff, and approximately 160 postgraduate students working across these disciplines with undergraduate numbers of approximately 650 across years 2 to 4. 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. More information about the department and our research can be found through our [website](#).

The department has recently launched three main research themes including 7 area of research focus. The department is also central to Monash Infrastructure (MI), an institute working with industry to deliver research in areas such as construction, public transport and water sensitive design. The Department is looking to build on existing and strategic research strengths of the University, including sustainable infrastructure.

Position purpose

A Level C academic is required to undertake academic duties that include lecturing in, and some administration of, the undergraduate and postgraduate teaching programs; and supervision of postgraduate research students. The successful applicant is expected to contribute to research and teaching of structural units in the context of sustainable infrastructure.

Reporting line: The position reports to the Head of Department within the Department of Civil Engineering

Supervisory responsibilities: Postgraduate/PhD research students

Financial delegation and/or budget responsibilities: Not applicable

Key responsibilities

The successful candidate will work within the Department of Civil Engineering and will have strong teaching, communication and research skills in the area of sustainable infrastructure including designing and building of structural elements in ways that do not diminish the social and economic processes required to maintain human equity, diversity, and the functionality of natural systems. The successful candidate's research area will be aligned with the structures group vision including "smarter, stronger, more durable structures – informing responsible future practices in structural engineering", within the context of new construction materials, construction techniques and/or reliability assessment for extending the life of new or existing infrastructure.

Specific duties required of a Level C academic may include:

1. The conduct of research and the undertaking of a significant role in research projects including, where appropriate, leadership of research teams
2. The conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and studio sessions
3. Initiation and development of course material in line with best practice methodologies
4. Course coordination and course content and delivery enhancement, including the preparation and delivery of lectures and seminars, and the design, implementation and review of educational innovations
5. Consultation with students including marking and assessment of coursework and guidance on areas of development
6. Supervision of the program of study of honours students and of postgraduate students engaged in course work, and supervision, support and guidance to major honours or postgraduate research projects
7. 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
8. Broad administrative functions
9. Attend and contribute to departmental, school and/or faculty meetings and play a major role in planning or committee work

Key selection criteria

Essential criteria

1. A research doctorate with demonstrated expertise in the field of structural engineering or closely related field
2. Demonstrated record of undertaking outstanding research
3. A good publication record in high-quality refereed journals or equivalent textbooks or teaching resources
4. Demonstrated record of obtaining significant external grants for research
5. Demonstrated experience in leading the development and delivery of high quality teaching, at undergraduate and/or postgraduate level, with positive student feedback
6. Demonstrated excellent written and verbal communication skills

7. Demonstrated ability to take a lead role in departmental research, scholarship and teaching matters

Other job related information

- Block teaching for our overseas education program may be required from time to time

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.