MONASH University

Position description

Lecturer

Department/Unit	Civil Engineering
Faculty/Division	Faculty of Engineering
Classification	Level B
Work location	Clayton campus
Date document created or updated	12 October 2016

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 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 **Monash Institute of Transport Studies** operates within the Civil Engineering department at Monash University. Monash ITS is the ARC Key Centre in Transport Management in Australia and is internationally recognised for its transport research and education programs. Monash ITS has five academic staff and three research fellows based on the Clayton Campus; and two other academic staff based at the Monash-SEU Joint Graduate School located in Suzhou, China. The group is also expanding with transport staff located in civil engineering at the Monash Malaysia campus in Kuala Lumpur. For further information about the activities of Monash ITS, please visit our website: www.eng.monash.edu.au/civil/research/centres/its/research

Monash ITS is focussing its research into two thematic areas:

- Multimodal urban transport system monitoring, modelling and optimisation: utilising advanced mathematical, optimisation and data mining techniques to study large transport networks and land use characteristics of smart cities
- Enhancing transport system sustainability, safety and resilience: understanding and influencing human behaviour and the social, environmental and economic impacts of transport on our cities

Position purpose

A Level B 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 expected to carry out activities to maintain and develop her/his scholarly, research and/or professional activities relevant to the profession or discipline.

The Lecturer is responsible for maintaining and developing their scholarship, research and/or relevant professional activities, as well as making significant contributions to the teaching effort of the University. The incumbent will utilise their strong teaching, communication and research skills, working within the Transport Group in the Department of Civil Engineering, ideally in the first research theme identified above. Expertise in traffic engineering or traffic flow theory would complement the capabilities of the existing transport staff in the group.

Reporting Line: The position reports to the Head of Department, Civil Engineering

Supervisory responsibilities: Not applicable

Financial delegation and/or budget responsibilities: Not applicable

Key responsibilities

Specific duties required of a Level B academic may include:

1. The conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and studio sessions
2. The initiation and development of subject material; development of course material with appropriate advice from and support of more senior staff
3. Course coordination and course content and delivery enhancement, including the preparation and delivery of lectures and seminars
4. Consultation with students including marking and assessment of coursework and guidance on areas of development
5. Supervision of major honours or postgraduate research projects, the program of study of honours students and of postgraduate students engaged in course work
6. The conduct of research and the undertaking of a significant role in research projects where appropriate
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. Attend and contribute to departmental, school and/or faculty meetings and play a major role in planning or committee work
9. 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:
    - an undergraduate degree in Civil Engineering or a closely related discipline, and a doctoral degree in Transport Engineering or a related field

Knowledge and skills:

2. Demonstrated ability in undertaking outstanding research, scholarship and teaching matters
3. Demonstrated publication record in high-quality refereed journals, conferences equivalent textbooks or teaching resources
4. Demonstrated record of successfully supervising tertiary or postgraduate research students
5. Demonstrated experience in leading the development and delivery of high quality teaching, at an undergraduate or postgraduate level, with positive student feedback
6. 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
7. 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
- 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.