Position Description

Lecturer/Senior Lecturer in Humanitarian Engineering

Position Number: 62064
Position Title: Lecturer/Senior Lecturer in Humanitarian Engineering
Date Written: June 2018

Faculty / Division: Faculty of Engineering
School / Unit: School of Civil and Environmental Engineering and School of Chemical Engineering
Position Level: Level B/C

ORGANISATIONAL ENVIRONMENT

UNSW is currently implementing a ten year strategy to 2025 and our ambition for the next decade is nothing less than to establish UNSW as Australia’s global university. We aspire to this in the belief that a great university, which is a global leader in discovery, innovation, impact, education and thought leadership, can make an enormous difference to the lives of people in Australia and around the world.

Following extensive consultation in 2015, we identified three strategic priority areas. Firstly, a drive for academic excellence in research and education. Universities are often classified as ‘research intensive’ or ‘teaching intensive’. UNSW is proud to be an exemplar of both. We are amongst a limited group of universities worldwide capable of delivering research excellence alongside the highest quality education on a large scale. Secondly, a passion for social engagement, which improves lives through advancing equality, diversity, open debate and economic progress. Thirdly, a commitment to achieving global impact through sharing our capability in research and education in the highest quality partnerships with institutions in both developed and emerging societies. We regard the interplay of academic excellence, social engagement and global impact as the hallmarks of a great forward-looking 21st century university.

To achieve this ambition we are attracting the very best academic and professional staff to play leadership roles in our organisation.

UNSW BEHAVIOURS

UNSW recognises the role of employees in driving a high performance culture. The behavioural expectations for UNSW are below.

Please refer to the UNSW Behavioural Indicators for the expectations of your career level (level B/C).
OVERVIEW OF RELEVANT AREA AND POSITION SUMMARY

The School of Civil and Environmental Engineering is the largest School in the Faculty of Engineering, with approximately 2600 student enrolments and a budget of over $20 million. The School has 48 full time academic staff, 27 professional staff and technical staff and 75 research only appointments. The School mission is to develop well-educated graduates with the essential skills, attributes and knowledge that will enable them to practice as professional civil or environmental engineers; and to conduct research and development of international distinction to meet the needs of the discipline, industry and society. For further information about the School, please visit http://www.civeng.unsw.edu.au/.

The purpose of this cross-school role is to deliver outstanding research and teaching in the Schools of Civil and Environmental Engineering and Chemical Engineering.

A Level B or C academic is expected to develop an internationally recognised research program in the field of Humanitarian Engineering and to contribute significantly to achieving the teaching and service missions of the School and Faculty.

This position is in the field of Humanitarian Engineering. Engineers have always sought to solve problems efficiently and creatively. Humanitarian Engineering uses the skills of engineers to address problems in disadvantaged communities. Humanitarian Engineering covers a spectrum of activities from disaster response and preparedness to long-term sustainable community development, within Australia and overseas.

The role of Lecturer/Senior Lecturer reports to the Heads of Schools of Civil and Environmental Engineering and Chemical Engineering and has no direct reports.

RESPONSIBILITIES

Specific responsibilities of the Lecturer role include:

- Conduct research of high quality and high impact including attainment of competitive government and industry research funding and publication of outcomes in high quality research outlets;
- Deliver high quality teaching and student experience utilising sound pedagogical methodologies and innovative technologies and, from time to time, deliver teaching across a broad engineering discipline;
- High quality supervision of major honours and postgraduate research projects;
- Actively engage with industry and the community to develop significant productive relationships in the field of Humanitarian Engineering, attract industry funding, government, non-government and philanthropic funding and participate in professional activities;
- Work collaboratively with peers across the Faculty and UNSW in all aspects of academic endeavour and contribute to mentoring of other staff;
- Be involved in broad administrative functions in the School and/or University, including coordinating subjects, attending departmental and/or Faculty meetings, involvement in Open days and recruitment activities and play a major role in planning and/or committee work or other duties as requested by the Head of School;
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.
Specific responsibilities of the Senior Lecturer role include:

- Conduct research of high quality and high international impact including attainment of competitive government and industry research funding and publication of outcomes in high quality research outlets;
- Play a significant role in research projects including, where appropriate, leadership of a research team;
- Deliver high quality teaching and student experience utilising sound pedagogical methodologies and innovative technologies and from time to time, deliver teaching across a broad engineering discipline;
- High quality supervision of honours and postgraduate research projects;
- Actively engage with industry and the community to develop significant productive relationships in the field of Humanitarian Engineering, attract industry, government, non-governmental organisation and philanthropic funding and participate in professional activities;
- Work collaboratively with peers across the Faculty and UNSW in all aspects of academic endeavour and contribute to mentoring of other staff;
- Involvement in broad administrative functions of the School and/or University, coordination of subjects, attends departmental and/or faculty meetings, involvement in Open days and recruitment activities and play a major role in planning and/or committee work or other responsibilities, as directed by Head of School;
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

SELECTION CRITERIA

Lecturer:

- PhD in Environmental Engineering, Chemical Engineering, Civil Engineering or a related area;
- Demonstrated track record in research with outcomes of high quality and high impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership;
- Demonstrated ability and willingness to deliver high quality and innovative teaching and student experience to both undergraduate and postgraduate students;
- A track record of significant involvement with the profession and/or industry in the field of humanitarian engineering and/or disaster relief;
- High level communication skills and ability to network effectively and interact with a diverse range of students and staff;
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships;
- Willingness to undertake any compliance and supervisor training as required;
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.
Senior Lecturer

- PhD in Environmental Engineering, Chemical Engineering, Civil Engineering or a related area
- Demonstrated track record in research with outcomes of high quality and high international impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership and/or delivery in appropriate infrastructure and technology in sustainable development or in natural and humanitarian disaster prevention and relief;
- Demonstrated ability and willingness to deliver high quality and innovative teaching and student experience to both undergraduate and postgraduate students;
- Experience in successfully recruiting and supervising high calibre students, or delivery of industry projects to remote and disadvantaged communities and/or under developed communities;
- Demonstrated ability to interact with the profession and/or work experience in remote and/or regional locations, in under developed communities, or in related humanitarian contexts;
- High level communication skills and ability to network effectively and interact with a diverse range of students and staff;
- Demonstrated ability to work in a team, collaborate across disciplines, build effective relationships and/or collaboration with international development or humanitarian organisations;
- Willingness to undertake any compliance and supervisor training as required;
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

It is not the intention of the position description to limit the scope or accountabilities of the position but to highlight the most important aspects of the position. The aspects mentioned above may be altered in accordance with the changing requirements of the role.