Position Description

Lecturer to Professor in Remote Sensing

Position Number: 00060786
Position Title: Lecturer to Professor in Remote Sensing
Date Written: 10 May 2018

Faculty / Division: Engineering
School / Unit: Electrical Engineering and Telecommunications
Position Level: B/C/D/E

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 (B/C/D/E).

<table>
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<tr>
<th>Demonstrates Excellence</th>
<th>Drives Innovation</th>
<th>Builds Collaboration</th>
<th>Embraces Diversity</th>
<th>Displays Respect</th>
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<tr>
<td>Delivers high</td>
<td>Thinks creatively</td>
<td>Works effectively</td>
<td>Values individual</td>
<td>Treats others</td>
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<td>performance and</td>
<td>and develops new</td>
<td>within and across</td>
<td>differences and</td>
<td>with dignity</td>
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<td>demonstrates service</td>
<td>ways of working,</td>
<td>teams. Builds</td>
<td>contributions of</td>
<td>and empathy.</td>
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<td>excellence</td>
<td>Initiates and</td>
<td>relationships with</td>
<td>all people and</td>
<td>Communicates</td>
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<td></td>
<td>embraces change</td>
<td>internal/external</td>
<td>promotes</td>
<td>with integrity</td>
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<td>stakeholders to</td>
<td>inclusion</td>
<td>and openness.</td>
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<td></td>
<td></td>
<td>deliver outcomes</td>
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The School of Electrical Engineering and Telecommunications has a vibrant research culture reflected in the achievements of its academic staff, and is currently rated as a level 5 ERA School (“Well above world standard”) in each of the 2010, 2012 and 2015 Excellence in Research Australia evaluations. The School enjoys a world-leading reputation for research excellence, with six IEEE Fellows among our 44 academic staff. According to the Shanghai Jiaotong 2016 rankings, EE&T@UNSW is placed first in Australia. The School has innovated significantly by introducing the first 5-year integrated bachelors/masters (with minor) and first (non-conversion) 2-year accredited masters programs, each with a major component of engineering design. These innovations have positioned the School in a period of very strong growth. Nationally, the School offers the most complete range of undergraduate and postgraduate electrical engineering and telecommunications programs, and is the largest of its kind. The School building is currently undergoing a $104m refurbishment, which when complete, will place our facilities amongst the best in the world. With a team that is recognised for its teaching excellence and innovative research, the School is producing the next generation of innovative engineers who will be equipped with the skills and knowledge to make a positive impact on industry and society. http://www.engineering.unsw.edu.au/electrical-engineering/

The purpose of this role is to conduct independent research and deliver excellent teaching in the area of Remote Sensing and, at level D/E to play a significant leadership role within the School in supporting the research achievement, the teaching and service missions of the School and Faculty.

An academic at Level B is expected to carry out activities to develop their scholarly research and professional activities both nationally and internationally and to contribute significantly to achieving the teaching and service missions of the School and Faculty.

An academic at Level C is expected to develop an internationally recognised research program in the field and to contribute significantly to achieving the teaching and service missions of the School and Faculty.

An academic at Level D plays a key role in leading and advancing outstanding research at national and international level.

An academic at Level E is expected to provide academic leadership and foster excellence in research, innovative teaching and professional activities in the area of expertise.

The role of position reports to the Head of School, and has nil direct reports.

RESPONSIBILITIES

It is expected that the appointee at level B or C will progress on a continual satisfactory and upward trajectory in their performance and specific performance expectations will be set individually with the Head of School/Supervisor.

Specific responsibilities for the role of Lecturer (Level B) include (but not limited to):

• 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, attract industry 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, attend 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 the Head of School.

- Ensure hazards and risks are identified and controlled for tasks, projects and activities that pose a health and safety risk within your area of responsibility.

The specific duties of the **Senior Lecturer** (Level C) include (but not limited to):

- 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, attract industry 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, attend 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

- Ensure hazards and risks are identified and controlled for tasks, projects and activities that pose a health and safety risk within your area of responsibility.

It is expected that the appointee at level D will continue to provide a significant contribution to their discipline and deliver satisfactory performance and leadership. Specific performance expectations will be set individually with the Head of School/Supervisor.

The specific duties of the **Associate Professor** (Level D) include (but not limited to):

- 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 the leadership of 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.

- Provide leadership in developing significant productive relationships and engagement with industry and the community, attract significant industry 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.
• High level contribution to broad administrative functions in the School and/or University, course coordination, 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.

• Provides a significant contribution to the profession and discipline.

• Ensure hazards and risks are identified and controlled for tasks, projects and activities that pose a health and safety risk within your area of responsibility.

It is expected that the Level E academic will continue to make a distinguished contribution to their discipline and deliver satisfactory performance and leadership. Specific performance expectations will be set individually with the Head of School/Supervisor.

The specific duties of the Professor (Level E) include (but not limited to):

• Engage, lead and foster a culture of excellence in research and deliver outstanding research of international significance including attainment of significant competitive government and industry research funding and publication of outcomes in high quality research outlets.

• Provide excellent leadership of research projects and leadership of research teams.

• 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.

• Provide leadership in developing significant productive relationships and engagement with industry and the community, attract significant industry funding and participate in professional activities.

• Participate and provide leadership in community affairs in professional, commercial and industrial sectors.

• Work collaboratively with peers across the Faculty and UNSW in all aspects of academic endeavour and play a leading role in the mentoring of other staff.

• Play an active role in the maintenance and development of academic standards in the development of educational policy and curriculum areas within the discipline.

• High level contribution to development of policy and broad administrative functions within the School and/or University, course coordination, attending departmental, faculty or University 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.

• Ensure hazards and risks are identified and controlled for tasks, projects and activities that pose a health and safety risk within your area of responsibility.
SELECTION CRITERIA

Applicants from industry and professional backgrounds should demonstrate their equivalent level of standing as demonstrated by professional experience.

Lecturer
- PhD in Electrical Engineering or 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.
- 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.
- Ability and capacity to implement required UNSW health and safety policies and procedures.

Senior Lecturer
- PhD in Electrical Engineering or 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.
- 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.
- Demonstrated ability to interact with the profession and industry.
- 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.
- Ability and capacity to implement required UNSW health and safety policies and procedures.

Associate Professor
- PhD in Electrical Engineering or related area.
- Significant track record in research leadership with outcomes of high quality and high international impact with clear evidence of the desire and ability to continually achieve research excellence and deliver research leadership.
- Record of outstanding delivery of high quality of teaching and student experience at both undergraduate and postgraduate levels and ability to develop innovative teaching methods.
• Excellent record of recruiting and supervising high calibre students.
• Demonstrated leadership in building engagement and partnerships with the profession and industry.
• 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, mentor other staff, collaborate across disciplines and build effective relationships.
• Willingness to undertake any compliance and supervisor training as required.
• Ability and capacity to implement required UNSW health and safety policies and procedures.

Professor
• PhD in Electrical Engineering or related area.
• A distinguished record in research leadership with outcomes of high quality and high international impact with clear evidence of the desire and ability to continually achieve research excellence and deliver research leadership.
• Record of outstanding contribution to teaching and delivery of high quality and innovative teaching and student experience at both undergraduate and postgraduate levels.
• Outstanding record of recruiting and supervising high calibre students.
• Demonstrated leadership in building engagement and partnerships with the profession and industry.
• 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, mentor other staff, collaborate across disciplines and build effective relationships.
• Willingness to undertake any compliance and supervisor training as required.
• Ability and capacity to implement required UNSW health and safety policies and procedures.

PRE EMPLOYMENT CHECKS REQUIRED FOR THIS POSITION
Verification of qualifications

*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.*