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).

<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 performance and demonstrates service excellence</td>
<td>Thinks creatively and develops new ways of working. Initiates and embraces change</td>
<td>Works effectively within and across teams. Builds relationships with internal/external stakeholders to deliver outcomes</td>
<td>Values individual differences and contributions of all people and promotes inclusion</td>
<td>Treats others with dignity and empathy. Communicates with integrity and openness</td>
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OVERVIEW OF RELEVANT AREA AND POSITION SUMMARY

Graduate School of Biomedical Engineering

The Graduate School of Biomedical Engineering is internationally recognised for its international contributions by highly experienced academic staff who offer a high quality educational experience and dedicated researchers who conduct world class research and have made astounding breakthroughs. The vision of the Graduate School of Biomedical Engineering is to provide the best research and teaching outcomes relevant to the development of applications in the human health sector to help in the diagnosis, treatment and quality of life of Australians with life-threatening or debilitating diseases and conditions. GSBmE provides concurrent undergraduate / postgraduate coursework programs and postgraduate coursework and research programs in the multidisciplinary area of biomedical engineering. It also undertakes rigorous novel research programs in a range of biomedical engineering fields. The School currently has 17 full time staff and approximately 500 undergraduate coursework students, 100 postgraduate coursework students and over 50 PhD students. For further information about the School, please visit https://www.engineering.unsw.edu.au/biomedical-engineering/

School of Electrical Engineering and Telecommunications

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 Biomedical Microelectronics.

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 Schools 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 Schools and Faculty.

The role of position reports jointly to the Heads of Schools 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 are 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 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

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

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 are 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

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

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 Biomedical Microelectronics or related area or equivalent relevant professional experience
- Demonstrated experience in neural bionics, technology development for neural interfacing and/or biomimetic neural interfaces
- Discipline experience in analogue, digital or mixed-mode microelectronic circuit design, tapeout and testing
- Discipline expertise in one or more of the following areas: microfabrication; telemetry and wireless power transfer; packaging of ASIC technologies; neural interface stimulation and recording for sensory / central / peripheral applications, including cochlear and bionic eye technology; electrical / optical / other
technologies for neural stimulation and recording; biocompatibility / biomaterials; biosignal processing and analysis; optical electrode and optogenetic delivery technologies

- 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 and knowledge of equal opportunity principles

**Senior Lecturer**

- PhD in Biomedical Microelectronics or related area or equivalent relevant professional experience
- Demonstrated experience in neural bionics, technology development for neural interfacing and/or biomimetic neural interfaces
- Discipline experience in analogue, digital or mixed-mode microelectronic circuit design, tapeout and testing
- Discipline expertise in one or more of the following areas: microfabrication; telemetry and wireless power transfer; packaging of ASIC technologies; neural interface stimulation and recording for sensory / central / peripheral applications, including cochlear and bionic eye technology; electrical / optical /other technologies for neural stimulation and recording; biocompatibility / biomaterials; biosignal processing and analysis; optical electrode and optogenetic delivery technologies
- 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 and knowledge of equal opportunity principles
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.