



## Position Description

# Research Associate / Senior Research Associate

*Position Number: 67536*  
*Position Title: Research Associate / Senior Research Associate*  
*Date Written: 22 Oct 2018*

*Faculty / Division: Faculty of Engineering*  
*School / Unit: School of Computer Science and Engineering*  
*Position Level: Level A / B*

## 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.

## Values in Action: Our 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 A / B).



Values in Action  
Our UNSW Behaviours



Builds  
Collaboration



Embraces  
Diversity



Displays  
Respect



Demonstrates  
Excellence



Drives  
Innovation

## OVERVIEW OF RELEVANT AREA AND POSITION SUMMARY

The School of Computer Science and Engineering is one of the largest and most prestigious computing schools in Australia. It offers undergraduate programs in Software Engineering, Computer Engineering, Computer Science and Bioinformatics, as well as a number of combined degrees with other disciplines. It attracts excellent students who have an outstanding record in international competitions. At the postgraduate level there is a large PhD research program and coursework programs at the Master's and Graduate Diploma level in Computing and Information Technology and at Graduate Certificate level in Computing. Our research mission is to be at the forefront of research into new and exciting innovations with profound national and international impact. For further information about the School, please visit <http://www.cse.unsw.edu.au/>

The Cyber Security Cooperative Research Centre (CyberCRC) has been funded for 7 years by the Commonwealth Government's Cooperative Research Centres Program and has also attracted significant funding from its participants. The CyberCRC is an industry-driven collaboration to create and enhance Australian cyber security capability. With two research programs, 'Critical Infrastructure Security' and 'Cyber Security Solutions as a Service', the CyberCRC will deliver innovative research, education and training outcomes that solve core challenges for public and private sector partners, with flow on effects for broader industry and community. It will support the training and development of the future Australian cyber security workforce through traditional education programs with university and industry partners; cross-seed knowledge from a range of disciplines across industry and academia to influence innovative approaches to cyber security; and build awareness of cyber security habits and risks. The Cyber CRC has 25 participants which includes 19 industry and government entities and 6 universities. For further information, please visit <http://www.cscrc.org.au/>.

The Senior Research Associate will work closely with CyberCRC to develop and engage in high quality, impactful research projects that contribute the cyber security of Australia. The role will focus on Cyber Security Solutions as a Service Program of CRC under Theme 2.3 - Privacy Preserving Data Sharing in a Hyperconnected World.

## RESPONSIBILITIES

Specific responsibilities for this role include:

### Level A

- Conduct research in the area of cyber security, independently and as part of a team
- Contribute to the writing of scientific papers and reports for international journals and progress reporting to other researchers and industry partners.
- Assist with the coordination of research activities and actively contribute to research outputs to meet project milestones.
- Contribute to the preparation of research proposal submissions to funding bodies and actively seek collaboration with industry partners as appropriate.
- Participate in and/or present at conferences and/or workshops relevant to the project as required.
- Assist with the supervision of research students in the research area where required.
- 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.

### Level B (in addition to the above)

- Lead some areas of the project where the opportunity arises and where appropriate.

- Participate in the definition of research directions and actively contributes to the coordination of research activities and research outputs to meet project milestones.
- Independently seek and apply for external funding opportunities to grow and enhance the research project, including seeking collaboration with industry partners, as appropriate.
- Provide leadership to the development of innovative concepts and ideas for further research.
- Joint supervision of honours and HDR students

## SELECTION CRITERIA

### Level A

- A PhD (or soon to be awarded) in computer science, electrical engineering, information technology, communication engineering or related area.
- Proven ability to conduct high quality research, development and implementation critical infrastructure security, network and systems security, Access Control and Policy, applied machine learning.
- Demonstrated ability to conduct independent research with limited supervision.
- Strong track record of publications and conference presentations relative to opportunity.
- Proven ability to work in a team, collaborate across disciplines and build effective relationships.
- Strong interpersonal skills with demonstrated ability to communicate and interact with a diverse range of stakeholders and students.
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

### Level B (in addition to the above)

- A PhD in computer science, electrical engineering, information technology, communication engineering or related area.
- Demonstrated ability to supervisor honours and postgraduate research students.

*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.*