

POSITION DESCRIPTION

Position Title:	Research Chair in Critical Infrastructure
Business Unit:	Faculty of Science and Technology
Appointment Level:	Academic Level E
Reporting To:	Executive Dean, Faculty of Science and Technology
Number of Direct Reports:	TBC
Delegation Band:	Band 7
Position Number:	TBC

THE UNIVERSITY OF CANBERRA

The University of Canberra is a young University anchored in the national capital and works with government, business, and industry to serve our communities and nation. The University of Canberra challenges the status quo; always pursuing better ways to teach, learn, research, and add value – locally and internationally.

Our purpose is to provide education which offers high quality transformative experiences; to engage in research which makes a difference to the world around us; and to contribute to the building of just, prosperous, healthy, and sustainable communities.

The University of Canberra has recently established its long-term ambitions through its new decadal strategy: *Connected*. Through its three objectives (Connected to Canberra, Connected for life and Connected UC), the University of Canberra aims to build sustainable communities through deep collaborations that are locally focused and globally relevant, partner for life with our students to shape our economic, social and cultural futures and deliver an outstanding, digitally connected experience that removes barriers to accessing higher education.

OUR PURPOSE AND VALUES

Our [purpose and values](#) are the heart of this university. They describe our core identity: who we are and how we behave at the University of Canberra. They were developed by our people for our people.

GALAMBANY

Together we work to empower, connect and share knowledge with our people, cultures and places



BUSINESS UNIT OVERVIEW

The Faculty of Science and Technology performs world-class research with a focus on tackling the challenges of connected, healthy and sustainable communities in the 21st century through scientific and technological discovery. The Faculty's research pursuits are strategically selected, with a focus on application and impact being at the heart of our research mission. Our researchers collaborate closely with other research institutes and industry to generate impactful science and technology driven solutions for real-world problems.

The Faculty of Science and Technology combines dynamic teaching with strong industry partnerships to provide our students with a multi-disciplinary, work-integrated experience like no other. Our researchers work closely with the academic programs and with partner organisations national and internationally.

Research and teaching encompass projects in environmental science, conservation biology, forensic and analytical science, biomedical science together with data science, artificial intelligence, Internet of Things (IoT), machine learning, robotics, cloud computing and cybersecurity. The key is to provide a balance between practice and theory, whether it is sampling within ecosystems or building robots, students will get a hands-on experience within the Faculty.

Higher Degree by Research (HDR) students are part of a vibrant, interdisciplinary research community with access to world-class supervision and state of the art research laboratories and equipment.

The Faculty of Science and Technology is at the forefront of information technology, complex system, machine learning and artificial intelligence. Partnering with Cisco provides an opportunity to create a world-leading, industry centric research program that will provide solutions for digital security and critical infrastructure.

POSITION PURPOSE

The Research Chair in Critical Infrastructure, jointly funded by UC and Cisco, will work at the nexus of industry and academia. The Chair will be integrated into Cisco's National Industry Innovation Network and benefit from the global partnerships and complementary capabilities offered by this network. The Chair will be supported by the Cisco UC Alliance Manager, responsible for the management of Innovation Central Canberra, engaging industry and business development.

The focus of this role is on leading and facilitating research and building the capacity in securing assets of national interest, Critical Infrastructure, cyber resilience and cybercrime.

- Developing research leadership and industry engagement across securing Critical Infrastructure across Government and Non-Government assets, focusing on the securing assets of national interest;
- Aligning to the Universities focus on Living Well (Assisted Living Technologies), the Environment (Smart Cities), with a focus towards the UC Hospital and the future on-campus Aged Care Precinct as a part of the campus masterplan;
- Focussing Cisco's partnerships and technical leadership in helping Industry, non-government and government to solve critical problems and innovate successfully with new ICT solutions and capabilities;
- Actively and publicly engaging with Cisco on a range of activities to promote the UC-Cisco partnership and provide ongoing reports and briefings to Cisco;
- Take a leading role in the development of research projects, funding submissions, high-quality publications, and mentoring staff and HDR students;
- Promoting a strong research culture which fosters disciplinary excellence;
- Helping lead outward-looking capacity and develop partnership relationships with external organisations;
- Participate as a senior leader in the Faculty of Science and Technology and the University.

PRIMARY RESPONSIBILITIES

The occupant of this position will be required to:

- Develop, build and lead an innovative research program in the security and defence or critical infrastructure, while maintaining exceptional research performance;
- Lead and grow a team of academic and professional staff;
- Provide research leadership within the School of Information Technology and Systems;
- Attract higher degree by research candidates and provide high quality supervision;
- Apply for and attract research funding through competitive grant schemes;
- Promote collaboration between Cisco, UC and other relevant industry partners;
- Attend, contribute and provide leadership to meetings of the School of Information Technology ad Systems within the Faculty and as well the Faculty more generally;
- Contribute to research-led teaching within Faculty;
- Represent the Faculty and Cisco at University and external events;
- Other related duties as requested by the Executive Dean.

ELIGIBILITY REQUIREMENTS

- A Doctoral level qualification relevant to cyber/network security or related area.
- A track record of internationally recognised research publications, higher degree research student supervision and success in securing competitive grant funding;
- A track record of industry engagement;
- High level interpersonal skills including the ability to communicate and establish effective relationships with staff, students and industry stakeholders.

KEY CAPABILITIES

Key Capabilities	Descriptors
1. Leadership	<p>1.1 Proactively addresses challenging issues and takes responsibility for seeing issues through. Assist team members to recognise barriers and overcome them.</p> <p>1.2 Connects the University Strategic Plan with the Portfolio and reinforces connections with other staff.</p> <p>1.3 Builds and communicates a clear and compelling path for others to choose to be committed and engaged.</p> <p>1.4 Champions and role models effective change while working to engage and enthuse others to embrace a vision of change.</p>
2. Effective Communication	<p>2.1 Adjusts message and delivery appropriate to audience.</p> <p>2.2 Listens to others and effectively communicates ideas.</p> <p>2.3 Produces accurate and effective information in a timely and efficient manner.</p> <p>2.4 Influences and negotiates persuasively.</p>
3. Collaboration	<p>3.1 Creates opportunities for communities of work colleagues.</p> <p>3.2 Looks beyond self and immediate team to add value to the whole University.</p> <p>3.3 Develops relationships with external parties. Seeks and acts on opportunities to connect external parties and partners to the University.</p>
4. Delivers results	<p>4.1 Delivers on agreed outcomes and escalates issues as appropriate.</p> <p>4.2 Identifies opportunities to improve processes and takes opportunities to problem solve to deliver outcomes.</p> <p>4.3 Responds effectively to changing circumstances and prioritises.</p>
5. Business Acumen	<p>5.1 Understands the purpose of own position and how this contributes to the objectives of the University.</p> <p>5.2 Manages resources effectively.</p> <p>5.3 Understands the commercial context the University operates in.</p>
6. Service	<p>6.1 Delivers seamless customer focused service underpinned by simplified and efficient processes.</p> <p>6.2 Understands and anticipates the needs of our students and partners and can convert these into commercial outcomes.</p>
7. Digital Literacy and Innovation	<p>7.1 Demonstrates the ability to work fluently across a range of tools platforms and applications to achieve complex tasks.</p> <p>7.2 Demonstrates the capacity to adopt and develop new practices with digital technology in different settings; to use digital technologies in developing new ideas, projects, and opportunities.</p> <p>7.3 Incorporates digital literacy skills into own learning and the learning of others e.g., students, peers, supervisees.</p> <p>7.4 Appreciates the legal, ethical and security guidelines in the management, access and use of data.</p>

Note: This position requires a skill level that assumes knowledge or training equivalent to graduate qualifications, or extensive relevant experience, or an equivalent combination of relevant experience and/or education/training.

While at work, you must take reasonable care that your actions or omissions do not adversely affect the health and safety of other persons. This includes:

- comply, so far as you are reasonably able, with any reasonable instruction that is given by the University to comply with the WHS Legislation
- cooperate with any reasonable policy or procedure of the University relating to health or safety at the workplace that has been notified to workers
- assume any additional duties as outlined in the WHS Procedure: Resources, Responsibility and Accountability