



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

UQ Cyber Research Centre

Membership Prospectus

Join us in advancing cyber security through collaborative partnership with UQ, to build effective solutions for a secure digital future.



UQ's Cyber Research Centre combines cutting-edge research with industry partnerships to drive innovation, talent development, and collaboration, benefiting industry-driven projects and shaping cybersecurity policy for a more secure future.



Core Projects

Fully funded by members or co-funded by 3rd party external grants. Example topics: AI for Cyber, Secure Quantum Computing, Organisational Cyber Resilience, Reduction of Harm to Cyber Crime Victims.



Talent Identification

First access to elite student competitors and talent pipeline via UQ Cyber and Team Oceania, or via sponsorship to elite cyber competition trainings, capstones scholarships.



Applications to external grants

ARC grants and other government/industry funding

Our Research Focus/Priorities

UQ Cyber Security is a university wide initiative, undertaking research, teaching and outreach from diverse fields, including technology, business, mathematics, social science and law.

- **Our research** delves into some of the biggest challenges within cyber security - from cutting edge topics like secure quantum communication to broader governance and policy issues facing the sector.
- **Our inter-disciplinary teaching programs** recognise that cyber security is a field requiring both deep specialist skills and experience as well as broad strategic insight into the global cyber security landscape.
- **Our outreach activities** include: regular workshops, conferences and other training activities aimed at enhancing awareness and capability within the broader community.

Our Team

- Chair/Director: Professor Ryan Ko
- Deputy Director: Associate Professor Dan Kim
- Centre Manager: Ms Kana Smith
- 60+ Academics across 13 fields

Existing Initiatives

- AusCERT
- Bachelor of Computer Science (Major in Cyber Security)
- Master of Cyber Security (Fields include cryptography, cyber criminology, cyber defence, and leadership)
- ARC Training Centre
- Professional training workshops
- CTF, International Cyber Challenge training



Cyber Facilities

Agile Security Operation Centre (ASOC)

The ASOC is our multi-purpose teaching and 'living lab' where we can simulate environments for teaching, training and research.

Cyber War Rooms

A flexible and configurable space for cyber war gaming where teams can contest a virtual environment as part of teaching /training and as a research test-bed.

Device Testing Lab

In collaboration with IT vendors, our lab enables staff and students to conduct comprehensive security assessments on diverse hardware, spanning from servers and desktops to mobile and IoT devices, including 3D printers, with facilities secured by CCTV and limited key card access.

Energy Testing Lab 4.0

The TestLab provides researchers with a new and powerful platform for innovative research in power systems analytics, security and demand side management supported by Siemens Energy related software tools.

Opportunities for Support

Scholarships and Placements

To tackle Australia's cyber security talent shortage, we seek sponsorship for under-represented IT groups, fostering diversity and attracting the best minds, regardless of background, through:

- Scholarships
- Internships
- Industry-based capstone projects

Hardware and Software

In order to deliver cutting-edge research and teaching, we seek support in sponsoring:

- Mobile Consumer IT devices
- VR equipment
- 3D printers

Partner with us

UQ's Cyber Research Centre is seeking industry partners to accelerate global cyber security challenges and educate top cyber security leaders.

Benefits of Partnership

- Project Partnerships with other member partners, networking/business opportunities
- Innovation with UQ and its researchers, to drive the development of new products and services and seek commercialisation opportunities, influence industry and standards bodies
- First access to a pool of elite student competitors and talent pipeline via UQ Cyber and Team Oceania, and alumni experts (trainers/educators)
- Expand your R&D capabilities via core projects with UQ and project partners, and submit joint applications to leverage your funding on external grants
- Build your brand name value via sponsorship opportunities, or build your reputation via a known university network for new business opportunities

Commercialisation and IP Management

IP Management will depend on a range of factors such as funding type, background IP, whether it has economic or societal benefits, and widely applicable to the sector. The University is open to discussion once a project scope is determined.

Governance

Strategic Advisory Board

- Sets strategic direction and endorses spend on projects
- Consists of UQ and industry (participants) with State Government (observers)

Centre Director

- Develops and implements strategic plans and oversees the operations of the Centre
- Takes advice from SAB, TAG and EAIT Executive Dean

Technical Groups

- Technical Advisory Group
- Technical Working Groups (project based)

Membership

Cost

- \$200,000 p.a

Contributing to:

- Sponsoring Oceania Cybersecurity Challenge and Team Oceania
- Core projects – e.g. hiring research staff, PhD scholarships focusing on member priorities
- Research grant cash commitments (could be freed up for more PhDs)

Membership is a rolling five-year partnership.

Further information:

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