Optus Macquarie University Cyber Security Hub
A/Prof Christophe Doche – Executive Director
Support Australia's growth in a complex world via education and research excellence in cyber security
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Concretely, we aim at

1. Enhancing cyber resilience
2. Facilitating innovation in the cyberspace
3. Translating complex information into simple terms
$10 million joint investment with Optus

Network of academics, business and government leaders

Tackling cyber security across different fields of expertise
Human Behaviour

Criminology & Law

Business, Finance & Risk

IT & Systems Security
Cross-sector Collaboration

- Human Behaviour
- Criminology & Law
- Business, Finance & Risk
- IT & Systems Security

Thought Leadership
Cross-sector Collaboration
Partnership with Data61

☑ Joint Strategy and Research Program

Project on privacy preserving data-sharing technologies worth more than $1.6m
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Project on privacy preserving data-sharing technologies worth more than $1.6m

Joint Appointments

Prof Dali Kaafar, Scientific Director of the Cyber Security Hub and Group Leader at Data61

Three new academic positions in 2018
Partnership with Risk Frontiers

✓ Risk Management and Catastrophe Modelling

Specialised in developing models addressing natural disasters for the insurance sector
Partnership with Risk Frontiers

- Risk Management and Catastrophe Modelling
  Specialised in developing models addressing natural disasters for the insurance sector

- Cyber Risk Modelling
  Research project worth $400k under way to model the impact of several types of attacks
Research Themes

- Secure and Reliable Systems
- Cyber Analytics
- Cyber Risk Modelling
- Human Behaviour
- Law, Cybercrime and Forensics
- Cyber Physical Systems

Privacy
Innovation Ecosystem

Proofs of Concept – Platforms – Models

Human Behaviour
Privacy
Cyber Risk Modelling

Matching Fund Schemes

Australian Government
Australian Research Council

MACQUARIE University
OPTUS
DATA 61
CSIRO
RISK FRONTIERS

AustCyber
Australian Cyber Security Growth Network
Skills & Education
Skills & Education

Outreach program to high school students and teachers to create a pipeline of graduates

- Cyber Challenge
- LifeJourney
OPTUS

Skills & Education

Schools

Undergraduate Programs
Undergraduate Programs

New programs in Cyber Security
✓ Major (2017)
✓ Bachelor (2020)

Scholarships

Industry work-experience
Schools

Postgraduate Programs

- Master of Cyber Security
- Master of Research
- PhD

Working on research projects co-designed with Industry
Skills & Education

Awareness & Training

Existing offering of short courses designed for:

- Senior Leaders
- Governance and Risk Teams
- Managers
- Technical Teams
- Every single employee
60%
An estimated 60% of breaches originate from accidental or malicious actions of insiders
An estimated 60% of breaches originate from accidental or malicious actions of **insiders**

Improving the security culture is key to increase cyber resilience and achieve privacy by design
We can help to transform the weakest links in your organisation into your first line of active defence
This relies on developing a whole-of-business awareness program

Starting from the top with boards and senior executives and reaching out to every employee
We have designed 5 different courses in close collaboration with Optus

**OUR PROGRAM IS:**

- Tailored
- Integrated
- Multidisciplinary
- Customised
- Engaging and Interactive
### Awareness and Training

| EXECUTIVE CYBER SECURITY LEADERSHIP | Half-day seminar for groups of 5–10 senior leaders |
| **EXECUTIVE CYBER SECURITY LEADERSHIP** | Half-day seminar for groups of 5–10 senior leaders |
| **CYBER SECURITY MANAGEMENT**         | One-day workshop for 15–20 managers |


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| **CYBER SECURITY MANAGEMENT** | One-day workshop for 15–20 managers |
| **CYBER GOVERNANCE AND RISK** | Half-day workshop for 10–15 risk specialists |
# Awareness and Training

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EXECUTIVE CYBER SECURITY LEADERSHIP

Half-day seminar for a group of 5 to 10 senior leaders

✓ Demystifies the different types of cyber threats
✓ Gives practical cyber hygiene advice
✓ Addresses cyber governance and compliance frameworks
✓ Provides practical legal guidance

Senior leaders will learn how to leverage best practice to proactively lead and manage the security culture
Foundations in Cyber Security

Half-day workshop for up to 50 employees

- Introduces elementary principles of information security
- Encourages the adoption of effective cyber hygiene practices
- Increases the understanding of the role of everyone in the cyber governance framework

This course contributes to harden organisations against cyber threats
Cyber Security Hub

Contact us to discuss opportunities for collaboration
cybersecurityhub@mq.edu.au

For more information visit
mq.edu.au/cyber-security-hub