



CYBER SECURITY
COOPERATIVE
RESEARCH
CENTRE

Cyber Security Research Centre Limited

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Cyber Security Cooperative Research Centre

cybersecuritycrc.org.au

About the CSCRC

The CSCRC is dedicated to fostering the next generation of cyber security talent, developing innovative research and projects to strengthen our nation's security capabilities.

We do this by:

- Building effective collaborations between industry, government and researchers, creating real-world solutions for pressing cyber-related problems.
- Delivering innovative research, education and training outcomes that solve core challenges for public and private sector partners.
- Identifying, funding and supporting research projects that build Australia's cyber security capacity, strengthen the cyber security of Australian businesses and address policy and legislative issues across the cyber spectrum.

Research with impact

The CSCRC conducts frank and fearless research and in-depth analysis of cyber security systems, the cyber ecosystem and cyber threats.

We have two research programs and a sub-theme:

- **Critical Infrastructure:** Protecting core systems is vital for businesses and governments to function efficiently and provide essential services. We deliver cyber security solutions that improve the security and reliability of critical infrastructure, helping ensure Australia remains a safe and trusted place to do business.
- **Cyber Security as a Service:** As cyber threats increase, ensuring organisational cyber resilience via rigorous and cost-effective solutions is essential.
- **Law and policy:** While tech advances accelerate, legislative and policy setting often struggle to keep pace. We are helping build legal and policy capacity to respond to the impacts of emerging technologies.

Cooperating across the cyber ecosystem

The CSCRC comprises 24 Participants.

- 10 industry/SME
- Seven government agencies
- Seven research providers

The CSCRC was awarded **\$50 million funding** over seven years by the Federal Government in 2018. This funding is supplemented by contributions for industry, university and government agency Participants. Commonwealth funding is used to leverage Participant contributions.

Our research: Case studies



Making smart airports safer

In the future, smart devices connected to the Internet will enable airline passengers to move seamlessly through Australian airports. We are researching ways to make air travel more secure by automatically discovering and neutralising vulnerabilities in these devices.



Making future military bases safer

Australia's defence bases will one day capture data and deliver services via smart devices. Our scholars' research will make these devices safer from cyber-attack by identifying, assessing and fixing vulnerabilities.



Cyber safety dashboards for business

To keep their companies safe, boards and executives need to understand data about cyber threats. We are developing ways to bring this information together and present it in an uncluttered way, so that Australia's business leaders can easily understand and manage their business's cyber risks.



Deception as a service

Organisations sometimes use decoy files to lure and catch malicious actors. Our research will help automate the production of this deception technology, ensuring decoy files look convincing and can be produced affordably and at scale.



Securing critical infrastructure

Australia's critical infrastructure is increasingly connected to the Internet, making it more vulnerable to cyber threats. Our scholars are working to develop effective and lower cost ways to hunt down cyber criminals so that Australia's infrastructure is kept secure.



Smart Shield™ to prevent email phishing

Cyber infections and financial losses are growing as email phishing becomes more sophisticated. Smart Shield™ will use machine learning and artificial intelligence so systems owners can stay one step ahead of phishing scams.

Fellowships and Scholarships

The CSCRC is looking for research collaboration and offers Postdoctoral Fellowships and Postgraduate Scholarships.

- **Cyber Security Research Scholarships** of up to \$50,000 a year for outstanding PhD and Masters (by Research) students, and up to \$10,000 for Honours students.
- **CSCRC Fellowships** to carry out research in partnership with CSCRC Industry & Government Participants in Projects that concern the 9 areas of research detailed above. Postdoctoral Research Fellowships with salaries up to \$113,138 p.a. (Academic Level B, step 5) are available from the CSCRC for outstanding PhD graduates to undertake research into cyber security.

Contact fellowships@cybersecuritycrc.org.au for more information.



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