



ASD Science, Technology, Innovation & Research Priorities

ASD welcomes collaborative research with academia in support of Australia's national security. ASD's research interests are across the spectrum of contemporary signals intelligence, security, foreign intelligence, cyber security and offensive cyber to meet current and future operational requirements.

ASD's Science Technology, Innovation and Research Priorities focus on physical, radio frequency, optical, data, space and cyber security domains.

Fundamentals	Opportunities
Cryptology & Mathematics	Semi-Conductors & Microelectror
Physical Sciences & Engineering	High Performance Computing
Future Computing	Networks & Communications
Communications Technology	Energy
Cyber Security & Computer Network Operations	Quantum
Analysis & Production	Artificial Intelligence
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Biotechnology

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Themes	
Supply Chain Integrity, Verification & Optimisation	Precision Manufacturing, Material Sciences & Cryogenics
Large Power Sources & Batteries	Mathematics & Post Quantum Cryptography
High Performance Computing	Quantum Computing & Algorithms
Vulnerability Research	Quantum Sensing, Classical Sensors & Radio Frequency Engineering
Optics & Photonics	Signals Analysis
Hardware & Firmware Engineering	Human-Centric Understanding & Psychological Profiling
Operational Technology, such as Secure/ Verified Software & Application Development	Behavioural Analytics
Al Algorithms, Architectures & Security	Communications
Natural Language Processing & Large Language Models	Al Trustworthiness, Adoption & Human-Machine Teaming

Current as at May 2025

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