UNSW Canberra Space

SEIT contributes a range of research strengths and capabilities including expertise in spacecraft design, assembly, integration and verification; autonomous control; sensor development; orbital tracking and communications and high-speed and low-density flows.

Australian Centre for Cyber Security

ACCS is a multi-disciplinary UNSW centre in cyber security, hosted by SEIT, which contributes research and teaching expertise in cybersecurity technologies. ACCS provides teaching to SEIT cybersecurity programs utilising its cyber range.

The Centre for Quantum Computation and Communication Technology

CQC2T is a multi-disciplinary UNSW centre in quantum information science, hosted by SEIT, which contributes research and teaching expertise in quantum information science, quantum cryptography, quantum communication and quantum technologies.

UNSW Canberra Icecube

The IceCube South Pole Neutrino Observatory is one of the most powerful neutrino observatories in the world, and is currently the only detector of any kind to search for dark matter particles. IceCube is a collaboration of physicists from around the world who are working to understand the fundamental nature of the universe.

Capability Systems Centre

The Capability Systems Centre undertakes research and education in a range of disciplinary areas relevant to the delivery of capability systems: systems thinking, complex systems, system of systems, systems engineering, requirements engineering, and project management.

Key School Capabilities

- Master of Capability Management
- Master of Cyber Security
- Master of Cyber Security Operations
- Master of Project Management
- Master of Project Preparation
- Master of Project Preparation

Thrust Areas

- Advanced Materials
- Control
- Optimization
- Autonomous Systems
- Cyber Security

We break silos in artificial intelligence, cognitive science, data sciences, decision sciences, human-machine teaming, testing, and unmanned platforms to research and develop trusted autonomous systems.

Optimisation

- Developing advanced optimisation and efficient computational and combinatorial approaches to solve complex real-world design and decision-making problems.

Control

- We provide engineering solutions to control problems across a wide range of applications, including mechanical, aerospace, and automation systems.

Adapted Materials

- Understanding and tailoring materials and structures to improve their performance in extreme environments.

Cyber Security

- Developing advanced cybersecurity solutions to protect against emerging cyber threats.

Emergency

- Developing advanced optimisation and efficient computational and combinatorial approaches to solve complex real-world design and decision-making problems.
Engage your future with the School of Engineering and Information Technology

The School of Engineering and Information Technology (SEIT) is located in the School of Engineering and Information Technology, UNSW Canberra, with over 70 academics producing the academic excellence, in both teaching and research, that is inherent to the University of New South Wales.

Four strategic foci flow through everything we do in SEIT: Aerospace Engineering, Cyber Secure Technologies, Engineering for Resilience, and Technology Decision Making. These themes shape all of our efforts from our three and four-year undergraduate offerings to our internationally recognised research.

Our academic programs are enhanced by the School’s contributions to leading research and innovation, with world-class capabilities in areas such as Advanced Materials, Control Engineering, Hypersonics, Impact Dynamics, Optimisation and Trusted Autonomy. SEIT hosts the Capability Systems Centre, the Australian Centre for Cyber Security, a node of the Centre for Quantum Computation and Communication Technology, and a burgeoning focus on space research - UNSW Canberra’s Space.

Our researchers collaborate with many of the leading international institutes and agencies in their fields, and we receive research funding from a range of government sponsors including the Australian Research Council, Defence Science and Technology Group, and in the United States by DOD. We also have numerous ties with industrial partners that result in commercialisation of our research portfolio.

The number of PhD research students is rising, with students attracted by the high quality of research activities within the School. We have various scholarship schemes to attract outstanding PhD candidates from Australia and overseas.

UNSW Canberra graduates and scholars shape Australia, the region, and the international community as leaders, as well as government, academia and industry. We encourage you to explore the opportunities to collaborate with us through study, research activities and partnerships.

Scott Tyo
Head of School

Visit: seit.unsw.adfa.edu.au