

ECU Defence Teaching, Research and Engagement



An accredited Defence Industry Security Program Member, ECU is supporting Defence through programs on cyber security, engineering and science, and health sciences.

Cyber Security

Recognised as one of Australia's first Academic Centres of Cyber Security Excellence by the federal government, ECU delivers onsite bespoke cyber security training to Defence personnel, and is conducting Defence research in:

- Semantic modelling of Digital Twins for cyber security defence automation
- Augmenting cyber defence capability
- Integration of seasonal factors in automated maritime traffic anomaly detection

Engineering and Science

- Underwater acoustic source identification in noisy environments
- Dynamic two-way communication using gestures for human-machine teaming
- Reliable underwater messaging systems

Health Sciences

- Virtual-reality-enhanced advanced tactical parachute training
- Joint Health Command - Physical and musculoskeletal injury prevention
- Routine "eccentric" exercise to optimise decision making in submarines
- Design of Digital Twinning capability for the Royal Australian Navy

Availability & Support

Bespoke research and education offerings can be tailored to meet Defence and Defence Industry requirements, with a range of ECU facilities also available for Defence and Defence Industry to conduct research.

Accreditation & Awards

ECU has been rewarded with five-star ratings for undergraduate teaching quality over the past 17 years, along with consistently high ratings for overall education, including many courses that are nationally and internationally accredited.

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Contact Details

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