

The Concept...

Creating Scale – Focussing expertise, facilities and funding towards the critical mass required to achieve a significant leap forward in defence and security related research

Optimising Quality – DSA minimises project risk through its transparent and streamlined organisational structure.

Vision...

Our vision is to be Australia's leading university-based centre for defence and security research with a reputation for excellence in meeting challenges in these areas.

Mission...

Our mission is to excel in defence and security (both military and civilian) research and development to serve the needs of the Australian community and to be a source of expertise that defence and security government organisations and industries, including DSTO, can leverage when needed.

Our Role...

- Achieving a breakthrough approach to problem solving
- Building a critical mass in defence and security applications research
- Creating a flow between DSA and the community through outreach
- Becoming a one-stop point of contact to UNSW@ADFA defence and security related research
- Taking an All-hazard approach to Homeland Security
- Establishing a rapid high-quality response to government and industry needs

Who we are...

- UNSW academics with a wide practical and research experience in defence and security applications covering a wide range of expertise in technology, engineering and humanities.
- We are acknowledged world-leaders in our research areas.
- Some of us come from a defence background.

Examples of our expertise...

- Acoustics
- Artificial intelligence
- Complex systems
- Control systems
- Data analysis/mining
- Image processing
- Information technology
- Intelligent sensors
- Geographical information systems
- Hypersonic and vibration
- Logistics
- Modelling and simulation
- Optimisation
- Quantum computing
- Remote sensing
- Risk assessment/management
- Safety
- Technology integration
- Technology transfer
- Video processing
- Visualisation

Call for Funding Opportunities

DSA seeks research funding from defence and security organisations – both government and private – and national research funding (e.g., the ARC). Please contact the Centre director to discuss opportunities.



Aims...

- to provide a world-class research centre that is responsive to the needs of the ADF and security (military and civilian);
- to build the capacity to conduct highly innovative and cross-disciplinary research and to achieve recognition as outstanding world-leaders in the area of security and defence applications;
- to enhance and build upon the existing network of UNSW@ADFA researchers;
- to provide Australia with high calibre post-graduates with cross-disciplinary security and defence expertise; and
- to undertake research that enhances Australia's future economic, social and cultural well-being.

Research Program...

Application themed research areas responsive to the defence and security environment. There are currently five themes:

- Intelligence & Surveillance
- Current and Future Warfighting Concepts
- Technology Integration
- Technology Transfer
- Soft System Modelling

www.dsa.adfa.edu.au

DSAR

DEFENCE AND SECURITY APPLICATIONS
RESEARCH CENTRE 2006

For further information

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