

Space Technologies Call for Academic Partner

The EDTAS series helps future-proof Australian Defence as part of the **Next Generation Technologies Fund** and it considers an expansive science and technology topic that will likely have a major impact – transformational or disruptive – for the Defence or National Security domains in the 20+ year timeframe. These symposia have been held in New South Wales, Victoria and South Australia to-date and will continue to seek academic partners and geographic locations indicative of a national program. Details of previous events can be found at - <https://www.dst.defence.gov.au/events/emerging-disruptive-technology-assessment-symposium-edtas>

EDTAS on Space Technologies

Australian Defence and National security is increasingly dependent on space-based systems to provide strategic information and communications throughout its capabilities. The current reliance on allies, international partners and commercial arrangements for high-end space capabilities limits the ability to produce the sovereign, enhanced capabilities required to support the future Australian Defence and National security needs.

Government, as demonstrated through the establishment of an Australian Space Agency, and commercial sectors are beginning to exploit emerging space capabilities to produce faster and more secure communications, enhanced space-based sensor technologies, and increased situational awareness through space technologies. These are being supported through lower cost access to space capabilities, and small satellite technologies that substantially lower the barriers to entry for new participants and smaller organisations. This in turn facilitates the commercialisation of space based technologies, products and services.

Defence Science and Technology (DST) is looking to bring together internationally recognised academic, industry and Defence leaders in a multi-disciplinary workshop environment for a two day symposium to explore and shape the long-term vision for Space Technologies.

The Symposium will seek to understand Australia's strategic needs, current technology capabilities and future technology development landscape and directions. Research drivers, challenges and opportunities around the following four themes will be explored:

- Advanced space launch technologies
- Space sensors and communications technologies
- Comprehensive space domain awareness
- Technologies supporting space capabilities

The Symposium will explore this expansive field from multiple perspectives in order to understand the application and implications for the national security domain. A key outcome from the symposium will be a Big Picture Assessment Report developed through the workshop contributions of all attendees.

The symposium will provide a number of opportunities including networking and partnering, an understanding of strategic and S&T challenges, and providing guidance to shape long term Defence and National Security.

How you can be involved in the EDTAS on Space Technologies

DST is seeking an academic partner to assist in co-hosting the Emerging and Disruptive Technology Assessment Symposium (EDTAS) on space technologies - to be held in week starting 4 March 2019.

The Next Generation Technologies Fund is a national innovation program focussed on exploring future game-changing technologies. EDTAS, as part of the Next Generation Technologies Fund, will typically hold its events at differing locations across Australia and with differing institutions.

The EDTAS academic partner must be a signatory of the Defence Science Partnership Program and must have renowned research programs in Space Capabilities.

The EDTAS academic partner will co-host the event and act as the primary hub for broad national and international academic outreach by coordinating academic participation with internationally recognised leading researchers from institutions across Australia.

The academic partner will also be responsible for organising and sponsoring a student innovation session aimed at potential concepts and ideas. Opportunities for student involvement in the preparation of the Big Picture Assessment Report may also be available.

It would also be desirable that the academic partner:

- Access to high level conference facilities to cater for up to 100 participants in a cabaret-style format (Essential);
- Identification of a thought leader at professorial level and a post-doctoral researcher to provide operational support in partnership with DST;
- Indicate how this EDTAS could tie into other Space-related activities conducted by the university; and
- Appropriate nearby accommodation available for national and international guests.

For more information and to obtain an application pack for your institution, please email edtas@dst.defence.gov.au

Proposals are to be submitted by **COB 9 November 2018**.