

DST Alumni Work Streams

Other roles outside DST technologies or line management	Includes contractors, vacation students, people from other Defence Groups working within DST etc
Management and Administration	Management roles that are not part of Research Services or Science Partnerships & Engagement
Science Strategy and Program	Develops science policy, formulates Defence S&T and strategic research programs, and oversees resource investment into S&T capabilities.
Science Partnerships and Engagement	Coordinates and develops interactions with industry, academia, overseas agencies and other Australian government agencies. Promotes defence science in the education and wider Australian communities.
Research Services	Delivers enabling services including science information management and technology, research infrastructure, scientific engineering and support, laboratory emergency management, safety and security.
Sonar Technology and Systems	Conducts leading research and development in undersea acoustic sensors and systems to grow the ADF's undersea warfare capability.
Acoustic Signature Management	Delivers S&T solutions to manage the acoustic signature of defence platforms; and the hydrodynamic and manoeuvring performance of ships and submarines.
Non Acoustic Signature Management	Undertake research in materials science and technology to enhance the survivability, operational capability, seakeeping and cost of ownership of ADF platforms.
Maritime Autonomy	Leads research into autonomous and unmanned systems to enhance ADF capability in maritime surveillance, mine countermeasures and rapid environmental assessment.
Undersea Command and Control	Provides Defence with scientific and technical expertise to enhance the RAN's undersea warfare capability and decision making.
Maritime Platform Performance	Undertakes research in platform performance of materials, structures and systems to enhance the capability, survivability and safety of RAN vessels.
Land Human Systems	Develops, sustains and applies the broad cross-section of human science skills in support of ADF land operations.
Land Vehicles and Systems	Conducts research in vehicle systems management, armour and protection, logistics and integrated support systems.

DST Alumni Work Streams

Chemical and Biological Defence	Research and development of defence against chemical, biological and radiation threats.
Land Personnel Protection	Supports soldier combat system development, and analysis of threats affecting the soldier.
Aerospace Systems Effectiveness	Supports Defence outcomes in capability, efficiency and safety by providing advice and solutions where humans and air platforms or systems interact.
Aircraft Performance and Survivability	Conducts performance and survivability modelling and experimentation for flight, propulsion, signatures and stores carriage and clearances.
Aircraft Health and Sustainment	Supports aircraft health management systems and technologies, engine and fuel integrity, and aerospace systems sustainment analysis.
Airframe Technology and Safety	Works to ensure aircraft safety and availability, reduce fleet cost of ownership and advises on acquisition projects
Aircraft Structures	Provides safety-critical aircraft structural integrity and airworthiness advice and solutions to Defence.
Joint Capability Analysis	Supports joint capability issues, including through the DST Group operations support centre by immersion and experimentation with warfighters.
Decision Sciences	Enhances military decision-making at individual, team and organisational levels in terms of intent, capabilities, awareness and control including human and machine perspectives, and their integration.
Strategic Capability Analysis	Informs strategic policy and capability decisions by applying analysis, concept development, risk assessment and technology forecasting.
Cyber Assurance and Operations	Supports enhanced performance in the presence of threats and unauthorised activities on computer resources.
Cyber Sensing and Shaping	Develops techniques for accessing, characterising and shaping communication networks to enable cyber operations.
Assured Communications	Provides solutions for robust communications in contested, complex and dynamic environments.
Systemic Protection and Effects	Analyses and supports critical cyber physical systems, with respect to systemic electronic attack.
Spectrum Sensing and Shaping	Supports enhanced situational awareness in complex radio frequency environments, and defeating the future networked electronic warfare, cyber and kinetic threats.

DST Alumni Work Streams

Electronic Warfare Operations	Conceives, develops and validates countermeasures to defend ADF assets, and conducts fundamental research in laser technologies and systems.
Tactical Systems Integration	Conducts research into tactical information: architectures; integration and interoperability; automation; and processing, to achieve distributed tactical decision superiority for the ADF.
Tactical Systems Performance Assessment	Conducts analysis of weapon system performance and end-to-end tactical system effectiveness.
Weapon Systems Technologies	Applies S&T of sensors, processing and electromagnetic interactions to weapons and tactical systems to enhance the ADF's warfighting capability.
Energetic Systems and Effects	Enhances Defence and national security capabilities, and the safety of ADF assets through research into energetic materials, explosive ordnance, propulsion technologies and high speed systems.
Intelligence Analytics	Develops situational awareness capabilities for intelligence analysts and conducts domain-specific research into human, open-source and all-source analysis techniques.
Information Integration	Supports the integration and application of intelligence, surveillance and reconnaissance systems.
Intelligence Systems	Develops intelligence systems for geospatial intelligence and measurement and signature intelligence, and imagery-based capabilities.
Surveillance and Reconnaissance Systems	Conducts research into surveillance and reconnaissance systems and assesses their application to defence and national security needs.
High Frequency Radar	Enhances long-range over-the-horizon radar as part of the national intelligence, surveillance and reconnaissance system.
National Security	Provides a whole-of-government coordination program for science and technology needs relating to national security.