ABOUT DST

The Defence Science and Technology Group (DST) is part of Australia's Department of Defence.

DST helps safeguard Australia by giving scientists, engineers, IT specialists, technologists and support staff understanding and research for Defence's needs:

- Investigating new technologies
- Developing new equipment and systems
- Ensuring Australia is a smart buyer of new defence equipment
- Increasing the performance and safety of Australian Defence personnel and equipment.

WHERE WE ARE

DST is home to some of the best science and technology facilities in the world, with research facilities across most parts of Australia. DST staff also have opportunities for long-term attachment to overseas research laboratories and universities.

DID YOU KNOW?

- A DST scientist invented the Black Box flight recorder. Every airline in the world now flies with the Black Box. It has provided critical clues in solving the mysteries of many of the world's most serious air disasters.
- DST developed the Bane Seabot which is dropped from maritime patrol aircraft into the sea to detect, locate and identify submarines and surface ships and trace their direction of movement.
- DST scientists used the ionosphere above the earth's surface to develop the world-leading high frequency over-the-horizon (OTH) technology known as JORN, which now provides 24 hour military surveillance over the northern part of Australia helping to detect illegal entry, smugglers and unlicensed fishing.
- DST scientists invented and led the world in using adhesively bonded fibre composites to repair and stop stress corrosion cracking of damaged aircraft structures. This technology is now used by commercial airlines to maintain and extend the life of their aircraft.
- Using a pulsed laser mounted to an aircraft, the Laser Achorde Depth Sounder (LADS) was invented by DST to enable faster, more efficient and cost effective underwater depth mapping than by conventional shipborne sonar methods.
- Seawork: a fluorescent dye developed by DST is a safe, effective and longer lasting alternative in using flares for search and rescue at sea. The dye can be seen from up to 8 km away and lasts for more than an hour after it has been released, increasing the chance of locating people or vessels in distress at sea.

Want more information about DST Group?

DSTGroupSTEMCoordinator@dsrc.dod.defence.gov.au
WHAT WE DO

DST offers opportunities to work with some of Australia’s most innovative people at the forefront of international defence and national security research.

So what kind of work do DST researchers undertake?

Information Technology
- Artificial Intelligence
- Computer programming
- Cyber security
- Information systems
- Signal processing
- Software engineering

Mathematics
- Analysis
- Cryptomathematics
- Modelling and simulation
- Statistics

Physical Sciences
- Autonomous systems
- Chemistry
- Electronic warfare
- Physics
- Radar technology
- Surveillance and space systems
- Human performance

Engineering & Technology
- Aeronautical/Aerospace
- Electrical/Electronics
- Materials science
- Mechanical engineering
- Mechatronics
- Naval Architecture
- Robotics

Human, Social & Health Sciences
- Biotechnology
- Operations/Simulation
- Food Science
- Behavioural and Social Science
- Environmental Science
- Biological Sciences
- Physiology
- Psychology
GET A HEAD START ON YOUR CAREER

The Defence Science and Technology (DST) Group provides a wide range of scholarship, cadetship, apprenticeship, and industry experience opportunities to students looking for a career in Science, Technology, Engineering and Mathematics (STEM).

As one of the world leading Defence research and development organisations, DST is interested in students studying:

Human, Social and Health Sciences – Bio-technology, operations/management, food science, behavioural and social science, environmental science, biological sciences, physiology and biomechanics.

Physical Sciences – Physics, chemistry (including energetic materials), electronic warfare, materials science, optoelectronics, radar technology, sensor technology, instrumentation and control, evaluation and experimentation, and acoustics.

Engineering and Technology – Aeronautical/aerospace, aircraft structures, electrical/electronic, flight mechanics, fluid mechanics, mechanical, microwave, robotics, weapon systems/engineering, systems engineering and integration, naval architecture and materials engineering.

Information, Computing and Communications – Artificial Intelligence and agents, information technology, communications, computing/mathematics, computing/programming, signal processing, software engineering and telecommunications.

Mathematics – Mathematics, statistics, operations research and numerical simulation/modeling and analysis.

SUMMER VACATION PLACEMENT PROGRAM

The Summer Vacation Placement (SVP) Program is a 12 week paid program for high-performing undergraduate STEM students. SVP students are supervised by DST staff and use their skills learned at University to work on a real Defence project. The program commences in November of each year to match the university summer break.

INDUSTRY EXPERIENCE PLACEMENT PROGRAM

The Industry Experience Placement Program provides students who are required to complete a compulsory industry placement component as part of their degree and the opportunity to achieve this at DST Group. Placements are paid and students are supervised by DST staff who work closely with the university to ensure that academic requirements are met.

CADETSHIP PROGRAM

The DST Cadetship Program provides high-performing STEM undergraduate students with the opportunity to secure their future career before finishing university. Cadets receive an annual salary and assistance including university fee payment. Cadets undertake a work placement each year at DST while being mentored by DST staff. Upon successfully completing the program, cadets are placed into a graduate level position at DST.

SCHOLARSHIPS

DST has established scholarships with various university partners across Australia. Scholarships provide the opportunity for promising STEM undergraduate students the ability to focus on their studies and position themselves for a future career at DST.

APPRENTICESHIPS

DST provides apprenticeships in various technical fields. Apprentices are supervised and monitored by DST staff who work closely with TAFE to ensure academic requirements are achieved.

INDIGENOUS TRAINEESHIPS

DST traineeships offer a 12-month work-placement and study program. Upon successful completion, trainees receive a Certificate IV in Government and the skills, experience and knowledge for a career with Defence.

INDIGENOUS AUSTRALIANS GOVERNMENT DEVELOPMENT PROGRAM (IAGDP)

DST offers IAGDP traineeships as an integrated employment and development program delivered over a period of 15 months. The IAGDP is facilitated by the Departments of Education and Defence. Throughout the program, Indigenous trainees are provided with professional and personal development opportunities and receive a Diploma in Government.