

VICTORIAN DEFENCE INDUSTRY AEROSPACE SYSTEMS

Victoria's global record in aerospace design and manufacturing puts it at the forefront of Australia's military aerospace industry



DEFENCE
EXCELLENCE



Renowned for its advanced manufacturing capability, world-class research and development (R&D) ecosystem, highly skilled workforce and globally connected industry, Victoria has proven expertise in delivering complex military aerospace projects in aerospace design, manufacture and training.

PROVEN EXPERTISE

Around 250 Victorian aerospace companies supply the Australian and global defence industry, offering military aerospace capabilities in:

- Advanced composite materials and production
- Component design, testing and certification
- Simulation and modelling
- Unmanned aerial systems (UAS) and guided weapons
- Manufacturing
- Software development
- Platform support and systems engineering
- Air traffic management systems
- Maintenance, repair and overhaul.

GLOBALLY CONNECTED

Victoria hosts significant elements of major global aerospace corporations such as Boeing, BAE Systems, RUAG, Mahindra Aerospace and Textron Systems, and maintains global connectivity through its network of 22 Victorian Government Trade and Investment offices.

Victoria is the home of the biennial Australian International Airshow at Avalon. The Airshow is one of the Asia Pacific's most prestigious aerospace, aviation and defence-related events and the most comprehensive aviation, aerospace and defence exposition in the southern hemisphere.

INDUSTRY LEADERS

Capabilities in the design and manufacture of composite aerostructures are broad and deep in Victoria. Melbourne's Fishermans Bend is home to Australia's largest aerospace contract, where Boeing Aerostructures Australia manufactures the 'moveable trailing edge' control surfaces of the 787 using carbon fibre technology, worth \$5 billion over 20 years. Victorian companies have been awarded the vast majority of Australian contracts for high profile projects, including 65 per cent by value of all Australian contracts for the F-35 Joint Strike Fighter project. Melbourne-based Marand is supplying 700 F-35 vertical tail fins for the Joint Strike Fighter project over the next 20 years and Lovitt Technologies is contributing airframe design, component machining and materials analysis.

Victoria is also a leader in the development of platforms and control systems for UAS and guided weapons. Leading UAS companies include Textron Systems, which manufactures the Aerosonde UAS and supports the Army's Shadow UAS; Sypaq Systems, which is developing small UAS; and Flight Data Systems which provides instruments, avionics and UAV systems. BAE Systems, Biarri, Tectonica, DefendTex and Biotech Engineering, along with the University of Melbourne, Deakin University and Defence Science and Technology Group (DST Group) play leading roles in the Defence Cooperative Research Centre for Trusted Autonomous Systems.

Support services to the aerospace industry are also well represented: the Australian Defence Force's new basic pilot training system will be delivered by Lockheed Martin Australia at RAAF East Sale, while Opaque Media Group creates Virtual Reality training solutions for NASA and Boeing. Thales Australia's Melbourne Centre of Excellence for Air Traffic Management develops airspace control systems for civil and military use, including OneSky, Australia's next-generation Civil Military Air Traffic Control System.

Other globally competitive aerospace companies include:

- Australian Precision Technologies
- AW Bell
- Cambridge Technologies
- Chemring Australia
- Flight Data Systems
- Hofmann Engineering
- Invenio
- Mahindra Aerospace
- Memko
- Nova Systems
- Pennant Australia
- QinetiQ Australia
- RUAG Australia

RESEARCH AND DEVELOPMENT

Victoria is a global leader in commercially successful R&D.

The state has one of the largest R&D clusters in the southern hemisphere and produces commercially focused and ground-breaking research.

Defence technology research is undertaken by Victoria's tertiary institutions and research organisations, often in collaboration with Department of Defence, industry and other national and international institutions.

Victorian universities contribute approximately 29 per cent (\$3.1 billion) of national university R&D spend and approximately 38 per cent (\$33.9 million) of defence R&D spend across Australian universities.

The Defence Science Institute is instrumental in supporting this growth, by harnessing the exceptional capabilities of R&D providers to deliver multi-disciplinary solutions for the defence industry.

Other key leading defence R&D organisations that have a significant base in Melbourne include the Defence, Science and Technology Group and the Defence Materials Technology Centre.



WORKING TOGETHER WITH INDUSTRY

The Victorian Government's vision is for an innovative, globally competitive, highly skilled and agile defence industry that excels in meeting the needs of the Australian Defence Force and global supply chains.

Victorian industry, with its deep expertise in aerospace design, engineering, R&D, manufacturing and through-life support can play a major role in aerospace defence capability and sustainment.

The Victorian Government will continue to work closely with the defence industry and the Australian Department of Defence to identify and support strategic industry capability requirements, including domestic and international aerospace projects.

VICTORIA'S DEFENCE SECTOR IS AN IMPORTANT PART OF THE STATE'S ECONOMY, CONTRIBUTING UP TO \$8 BILLION ANNUALLY. THE SECTOR EMPLOYS AROUND 18,500 PEOPLE AND HAS MORE THAN 770 BUSINESSES, WHICH MAKE EQUIPMENT AND PROVIDE SERVICES FOR DEFENCE ACTIVITIES.

FURTHER INFORMATION

Defence, Aerospace & Security

Department of Jobs, Precincts and Regions

+61 (3) 9651 8053

defence@ecodev.vic.gov.au

Australian Defence Alliance - Victoria

+61 (3) 8658 5707

australiandefencealliance.org.au

Victorian Defence Alliances

victoriandefencealliances.org.au