



## Aviation and Aerospace

### Up up and away

The Australian aerospace industry is a significant segment of the Australian manufacturing sector. Australia also has international capability in pilot training, airport design and fit out as well as associated software and systems.

The Australian aerospace industry is a competitive and technically sophisticated niche supplier to both domestic and overseas markets across a wide range of aerospace activities including:

- > aerostructure component manufacture
- > systems engineering and avionics
- > manufacture of light aircraft for training, agricultural and recreation uses
- > repair, maintenance and overhaul services for domestic, overseas airlines and military including through life support
- > pilot and engineering training
- > development of airport management products and services
- > composites
- > tooling
- > military aircraft
- > light aircraft constitute
- > unmanned aerial vehicles (UAVs)
- > software and niche products

### Manufacturing components

Large scale manufacturing of components and engine servicing and overhaul activities are prevalent; and these activities constitute nearly two thirds of industry revenue.

Australia also has capability in the supply of speciality alloys and materials, parts, engineering and manufacturing services, and high quality precision tooling and equipment.

### Research

Research agencies supporting the sector include the Cooperative Research Centre for Advanced Composite Structures (CRC-ACS), the Defence Science and Technology Organisation (DSTO), the Sir Lawrence Wackett Centre for Aerospace Design Technology, the Manufacturing Science and Technology division of CSIRO, and researchers at the universities of Sydney, NSW, Monash, RMIT, Queensland.



## Airports Infrastructure

Australia is a leading supplier of airport infrastructure to the world. Australia has developed world-class expertise through the development and adoption of airport solutions and supporting engineering capabilities and technologies for a unique geography and diverse local conditions.

Australian engineers and operational personnel, working both in Australia and forums such as the International Civil Aviation Organization (ICAO), have played a significant part in the development of airport design standards, recommended practices and guidance material for use throughout the civil aviation world. This has led to Australia developing a strong capability in all aspects of airport design, including such elements as the dimensions and configuration of runways and other pavements, approach and other flight clearance surfaces, airport lighting and surface marking and airport building design, fit out, systems and management services such as security and passenger handling.

A major study of world airports assessed the best airports based on employee productivity, aeronautical developments, staff and operating costs, with all five of Australia's international airports rated in the top seven of the world.

Australian companies and organisations from the airports industry can provide a complete range of quality airport services, including consulting, civil works, supply and installation of systems and equipment, and management and operational support.

Australian companies can also provide a total solution for a wide scope of airport developments or expansion projects. Total packages can be developed to include construction and management and transfer of technology with specific training packages as part of overall project delivery.

### *Airport Infrastructure capability*

Air traffic analysis and forecasting	Control tower design
Airfield pavement design	Landscaping design
Airport feasibility studies	Road access and parking systems
Airport master planning	Site analysis and design
Airspace design and planning	Terminal design and construction
Construction of runways and buildings	Environmental impact studies
Sound reduction systems	Noise monitoring systems
Waste management design	

### *Airport systems and services capability*

Air traffic control management	Fire and rescue services
Air traffic control systems and software	Flight information display systems
Aircraft handling	Lighting systems
Airport management systems	Meteorological, navigational & radar systems
Asset management and maintenance	Passenger & baggage handling
Catering systems	Safety and security systems
Communications systems	

## Key resources and links

[www.casa.gov.au](http://www.casa.gov.au) – Civil Aviation Safety Authority

[www.airservicesaustralia.com](http://www.airservicesaustralia.com) – Airservices Australia

[www.asfa.org.au](http://www.asfa.org.au) – Aviation Safety Foundation Australia

## Australian Trade Commission services

Australian Trade Commission (Austrade) has a network of staff across India who can assist Indian companies to identify Australian expertise and connect you with the right people to expand your business.

**Utsav Australia** is an Australian government program managed by Austrade to raise awareness of Australian capability in India.

If you are thinking of expanding your business and would like more information on how to do business with Australia visit the Austrade website:

[www.austrade.com](http://www.austrade.com) or email Austrade on: [utsavaustralia@austrade.gov.au](mailto:utsavaustralia@austrade.gov.au)

