ENGINEERS
AUSTRALIA

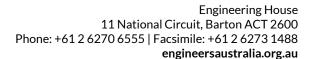# Aerospace Engineering
Area of Practice / Area of Engineering

Aerospace engineering deals with the development of aircraft and spacecraft. The purpose of aerospace engineering is to achieve optimal integrated aerospace systems.

Some of the indicative activities undertaken when practising Aerospace Engineering are:

- air safety investigation
- certification
- design and documentation
- education and training
- installation
- manufacture and supply
- operation and maintenance
- quality assurance
- research and development
- risk management
- test and evaluation
- user and regulatory requirements

These activities could take place in any of the following aerospace engineering domains:

- aerodynamics and performance
- aircraft stores
- airports
- airways systems
- cabin environment
- cockpit ergonomics
- communications systems
- computer systems and avionics
- crashworthiness
- electrical systems
- electronic warfare
- environmental effects
- fire safety and control
- flight management systems
- flight simulators

- flight test recording
- fuels and lubricants
- hydraulic systems
- maintenance
- materials and manufacturing
- navigation systems
- noise and acoustic effects
- propulsion systems
- radar systems
- risk management
- satellite systems
- software
- structural integrity
- test flight control
- tracking systems
- vehicle dynamics
- vehicle launch and recovery.

To find out more about aerospace engineering visit our Engineering communities page.

How to apply

This area of practice is available to those who want to become Chartered and is available to all occupational categories. Learn more about becoming Chartered and how to apply.

If you want to add aerospace engineering as an additional area of practice, email us to enquire about the process.

Registration eligibility

Aerospace engineers may need to hold statutory registration in an Area of Engineering in accordance with relevant legislation. Check the State registration page for more information.