

Western Australia

The Southern Hemisphere's global hub for space operations and exploration

Western Australia has played a significant role in the global space industry for over 60 years, supporting international space agencies, the commercial space sector and major space missions.

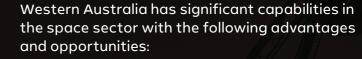
Home to clear skies, vast land expanses, and ideal geographic latitude and longitude for space activities. Western Australia is involved in a range of space domains, hosts significant space infrastructure for both civil and defence applications and is home to more than 100 international and Australian organisations operating space and space related services.

Leveraging Western Australia's significant space infrastructure, leading space science and research, vibrant space ecosystem, Western Australia is the Southern Hemisphere's global hub for space operations and exploration.



Western Australian Space Snapshot

- Over 100 international and Australian organisations in space and space-related services.
- Home to world-class remote operations centres providing terrestrial and space mission operations services.
- Home to the only space laser optical ground station in the Southern Hemisphere with world-leading phase stabilisation and self-guiding optical technology.
- Co-host of the \$3 billion Square Kilometre Array the largest radio telescope in the world.
- Location of Australia's only Satellite Park designated by the Australian Communications and Media Authority, and the largest radio quiet zone in the Southern Hemisphere.
- Home to the largest planetary research group in the Southern Hemisphere.
- Hosts ground infrastructure for five international space agencies, including two of ESA's four deep space ground stations.
- Home to the most powerful public and commercial supercomputers in the Southern Hemisphere, which also actively support space activities.
- A diverse and strong economy with significant demand for space technology and data across mining, agriculture, defence, energy, and maritime industry sectors.
- Host of the 2024 Asia-Pacific Regional Space Agency Forum.



- Southern Hemisphere location and longitude ideal for launch, space situational awareness and global coverage of space assets.
- Ideal environmental conditions: geologically stable with clear skies, large arid areas with minimal radio interference and radio-quiet zones.
- Partnerships and extensive activity with international space agencies and private space companies.
- Substantial capabilities in space mission operations, Earth observation, big data analytics, space systems, ground stations, astronomy and planetary research.
- World-leading capabilities in remote operations, automation and robotics utilising ultra-low bandwidth satellite communications.
- Emerging capabilities in optical communications; satellite design, construction and operation; and launch.
- Strong economy with a significant demand for space data, satellite services, and technology transfer with Western Australia's key industries (mining, energy, agriculture, defence, maritime).
- Vibrant R&D ecosystem: home to five universities and various research institutions with established expertise in space sciences and related fields.
- Diverse and highly-skilled workforce, with a pipeline of skilled workers in space and space-related fields.



Find out more about the Western Australian space sector and opportunities for your organisation.





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Western Australia Space Infrastructure



