

Careers pathways in GIS

Explore the wide variety of careers available to GIS professionals

Location intelligence is increasingly being used by businesses and organisations to inform better decisions and more efficient practices. As a result, careers in GIS are in demand more than ever. GIS professionals qualify for occupations in countless fields, where their data visualisation and spatial analysis skills can be put to use.

Which fields can you work in?

GIS professionals are highly sought after in a range of fields including: agribusiness, banking, utilities (electricity, gas, water, telecommunications), logistics and freight, mining, government (federal, state, local), defence and intelligence, health, education, transport, emergency services and law enforcement, environmental management, and architecture, engineering and construction.

Career pathways with GIS

-  Climate scientists and conservationists
-  GIS technicians, developers and managers
-  Health geographers and emergency response personnel
-  Land management roles: foresters, natural resources, mines
-  Town planners and land survey technicians
-  Software engineers, IT programmers and app developers
-  Explore other GIS career options

What should I study after school?

Tertiary educational institutions – TAFE and universities – now offer courses in spatial science or spatial science technology. However, the use of spatial technologies in specific industries is often covered in other courses that have STEM or Geography components like engineering, surveying, construction and architecture.

What skills does an entry-level position require?

- » Degree in geography, GIS, urban planning, spatial science, or related field
- » Strong experience and exposure to geospatial technologies like ArcGIS
- » Strong data management and analysis skills
- » Ability to produce customised maps
- » Time-management, teamwork and self-management skills

Want to find out more?

Explore how various industries are using GIS in their fields by visiting esriaustralia.com.au and visiting the Industries tab. Alternatively, visit our [Careers in GIS](#) page to access short videos on careers in GIS.

What is an average salary?

The salary for an entry-level GIS role is \$55,000+ a year. However, the average yearly salary bracket for a GIS professional in Australia is \$75,000 - \$85,000. GIS professionals can be paid upwards of \$150,000 depending on their role and experience.

Want to improve your own skills?

Head to our [schools webpage](#).