

# Surveying and Spatial Sciences

Would you like to help shape the world of tomorrow? Surveyors and spatial scientists measure, map and model our world, playing a critical role in the decisions that affect our society.

Our Surveying and Spatial Sciences graduates are in high demand and have a 100% employment rate in a diverse range of industries and occupations. You'll also be learning from the very best. The University of Tasmania is home to Australia's top-rated spatial research group and your lecturers are world leading experts in their fields.

## WHY STUDY SURVEYING AND SPACIAL SCIENCES WITH US?



Use industry-leading equipment, including drone technology, aerial systems, airborne and satellite remote sensing, global navigation satellite systems and laser scanning.



Industry engagement is core to your learning through project-based units, input from practicing geospatial professionals, and industry and research-aligned capstone units.



Go beyond the classroom and get genuine experience, with summer research projects, field trips, and field-based units right from first year.

### Bachelor of Surveying and Spatial Sciences

> [VIEW COURSE DETAILS](#)

**Duration** Min. 3 years, max. 7 years

**Location** Hobart

CRICOS: 058833B

### Bachelor of Surveying and Spatial Sciences with Honours

> [VIEW COURSE DETAILS](#)

**Duration** Min. 1 year, max. 3 years

**Location** Hobart

CRICOS: 058835M

### Graduate Diploma of Land Surveying

> [VIEW COURSE DETAILS](#)

**Duration** Min. 1 year, max. 3 years

**Location** Hobart

CRICOS: 078556G



That's what got me the job at Geoscience Australia. Being a surveyor from UTAS holds quite a lot of weight. In fact, the majority of surveyors at GA are from University of Tasmania."

– ANNA RIDDELL, BACHELOR OF SURVEYING AND SPATIAL SCIENCES

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## CAREER OUTLOOK

Every industry on Earth utilises Surveying and Spatial Sciences in some way. Graduates have the opportunity to pursue a range of careers, including:

### **Geospatial analyst and GIS specialist**

Conduct computer-based mapping and analysis of spatial information, resulting in efficient and effective decision making. From assessing the construction of billion-dollar tunnels under cities, projecting housing expansion over the coming decades, or evaluating climate change effects on the environment, geospatial analysts are involved in many different projects around the world.

### **Remote Sensing specialist**

Provide measurement, mapping and data analysis from drone, aircraft and satellite sensors. Map areas of the world that can't otherwise be easily accessed or visualised, both in real-time, e.g. during bushfires and floods, and as part of ongoing planning and management.

### **Land and Engineering Surveyor**

Surveyors play an integral role in all aspects of land development, from planning and design of subdivisions through to the construction of major infrastructure, roads and buildings. Licensed Land (Cadastral) Surveyors are always in demand as they are the only people legally able to define land boundaries.

### **Hydrographic Surveyor**

Measure and map the seafloor to inform large scale marine-oriented projects, like ensuring ports and shipping lanes are accessible for global trade.

### **Geodesist**

Utilise satellite and terrestrial data to measure and map the Earth, and to monitor regional and global changes like sea level rise, shifting ice sheets, and earthquakes.

## WHAT CAN I STUDY?

### **Geospatial Science**

Combine Geographic Information Systems, Global Navigation Satellite Systems and remotely-sensed data (from satellites, drones, etc.) to solve real-world problems. These skills are highly relevant across disciplines such as Environmental Management, Geography, Geoscience, Computing and Information Systems, Biological Sciences, Agricultural Science, Marine Science and Antarctic Science.

### Become a registered land surveyor

For registration as a Land Surveyor in Tasmania, graduates are required to complete the Bachelor of Surveying and Spatial Sciences followed by the Graduate Diploma in Land Surveying, then undertake a period of supervised professional experience and examinations through the Tasmanian Land Surveyors Accreditation Board.

**Learn more about Surveying and Spatial Sciences here.**