



Want a challenging and exciting career in Spatial Information?

Have you thought about a career in spatial information?

The field of spatial information offers exciting career opportunities, involving cutting-edge technology and the chance to work in a diverse range of industries.

What is spatial information?

Spatial data is information that can be mapped or which communicates 'where' a person or object is located in relation to others. It uses Geographic Information Systems (GIS), Global Positioning Systems (GPS), and remote-sensing satellites and imagery. Basic cartographic principles are increasingly being applied through digital media.

Is spatial information like Information Technology?

The spatial information industry relies heavily on the information technology sector and has scientific and technical links to many other disciplines, such as environmental science, engineering, computer science, logistics, planning and resource management.

This field acquires, manages and analyses data that has geographic, temporal and spatial contexts. It also includes developing and managing related information technology tools, such as aerial and satellite imagery, Global Navigation Satellite Systems (GNSS) and GIS.



How is spatial information used?

Spatial information has many practical and important applications in society. Satellite images bring daily weather reports, provide farmers with information for agriculture and allow bushfires to be tracked with airborne infra-red scanners.

The Department of Natural Resources and Water (NRW) uses a diverse range of spatial information technologies as part of its core business. GNSS is used to monitor the location of water bores and display vegetation clearing and weed infestations. Properties are valued using GIS and a wide variety of mapping services are used to display and analyse spatial data. Spatial information is an important component in monitoring impacts on the environment and by applying spatial technologies these impacts can be more easily identified and managed.

Want your fees paid while you learn and earn?

NRW has a spatial information scholarship program for tertiary students with advertising occurring throughout the year. These vacancies are advertised at www.jobs.qld.gov.au and on university career hubs. Applicants must be accepted or enrolled in an approved degree to be considered for a scholarship.

Duties and activities of the position will focus on capturing and enhancing spatial information (digital and graphical data) using the latest GIS and database technologies. On-the-job training will also be provided in producing geographic information products and services.

On a full-time scholarship in spatial information, you may earn from \$27 000 to \$41 000 per annum while studying, plus 100% reimbursement of HELP (Higher Education Loan Programme—formerly HECS) fees. Other incentives include full payment of your student services fees, examination fees, course fees, library photocopying and compulsory residential school and field trips. You will also be granted paid study and examination leave. On successful completion of the degree, your employment will continue at a higher classification with a commencing salary of \$44 000 per annum. You can subsequently receive annual increases and earn up to \$56 000 per annum, with the opportunity to progress further on application.

How can you benefit from the NRW scholarships?

You'll be ahead of the pack! The NRW spatial information scholarship program gives you the competitive advantage of up to four years of industry work experience in your field of study before completing your degree.

What type of degree can you study to be eligible for the scholarship?

Tertiary enrolment considered suitable for a scholarship in spatial information can include a Bachelor degree in Urban Development (Spatial Science), Environmental Management, Science (Geographic Information Science), Spatial Science Technology, Environmental Planning or similar area of study.



Why choose a spatial information career with NRW?



NRW is responsible for collecting and managing fundamental land information data sets such as the digital cadastral database, property location data, place names, administrative boundary data, topographic data, and aerial and satellite imagery. NRW works alongside industry representatives and uses advanced technology to maintain and preserve Queensland's natural resources.

By working in the field of spatial information, students can contribute to managing valuable resources to support future growth and prosperity in Queensland and help ensure responsible resource management for future generations.

What other career opportunities are available in this area?

Students undertaking studies in the area of geographic or spatial information can work in natural resource management, including coastal, river and catchment systems; spatial information capture and management, including GIS and spatial databases; geographical information science; environmental conservation and planning; or ecotourism.

Further information

For further information on the NRW scholarship program visit www.nrw.qld.gov.au/about/employment/index.html

For further information on spatial information at NRW visit www.nrw.qld.gov.au/mapping/index.html

For vacancies at NRW visit <http://jobs.qld.gov.au>