Master of Geospatial Science

Prepare for leadership roles in geospatial science, building your understanding of spatial analytics and big spatial data for making critical decisions about our built and natural environments.

Geospatial scientists are experts in using spatial analytics to make sense of big spatial data captured from the latest sensor technologies. A Master of Geospatial Science will equip you with the advanced skills required for leadership roles in government, industry, and research.

Gain professional-level expertise in the analysis, management, capturing and visualisation of spatial information, and become proficient in the latest technologies and infrastructures to support these skills.

With a Master of Geospatial Science, you will be equipped to meet the growing national and international demand for expertise in spatial analytics, spatial data management, cartography, positioning and remote sensing.

Learning and teaching

Through the program you will develop a unique breadth of expertise across geospatial science, including:

- knowledge of fundamental spatial information technologies, including geographic information systems (GIS), spatial databases, and cloud and mobile geospatial computing.
- advanced skills in mapping and visualisation for creating engaging and interactive geospatial presentations.
- knowledge of the latest spatial data capture systems, including satellite remote sensing, GPS satellite positioning, drone and aerial imagery, wearable sensors, sensor networks, and crowd-sourced data.
- specialised knowledge in key areas that complement geospatial science, which may include environmental science, natural resource management, computer science, business and project management, architecture and urban planning, mathematics or statistics.

Professional recognition

Graduates may be eligible for admission to the Surveying and Spatial Sciences Institute of Australia (SSSI). Graduates may also be eligible for membership of the Mapping Sciences Institute of Australia (MSIA). The program is currently applying for accreditation with the Royal Institute of Chartered Surveyors (RICS).

Industry connections

RMIT has extensive links with industry across all aspects of spatial sciences, including remote sensing, geographic information systems, geovisualisation, photogrammetry, surveying, cartography, and land administration and land management.

There will be many opportunities for you to participate in industry-related teaching and learning activities such as field and project work. As part of the program you can complete an industry project.

Career outlook

Graduates are well equipped to take on advanced roles within the spatial sciences. The skills are in high demand both nationally and internationally across a wide range of industries and the government sector including:

- environment and natural resources
- land development
- mining and exploration
- facilities management and construction
- transportation and utilities
- governance and policy
- emergency and disaster management
- data analytics and ICT.

Program snapshot

Program code: MC265

Exit points

After completing 96 credit points of study approved by the program manager, you may exit with a graduate diploma.

Duration

Full-time: 2 years

Location

City campus

Program Manager

Dr Amy Griffin
Tel. +61 9925 2338
Email: amy.griffin@rmit.edu.au

How to apply

Direct to RMIT University:
rmr.edu.au/programs/apply/direct

Fees

To calculate your fees visit:
rmr.edu.au/programs/fees/postgraduate

rmr.edu.au/programs/mc265
If you have successfully completed one of the following qualifications majoring in geospatial science, geomatics, land information, surveying, geography or a relevant discipline you will be eligible for exemptions as follows:

<table>
<thead>
<tr>
<th>Qualification level</th>
<th>Exemptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor degree</td>
<td>Up to 48 credit points (equivalent to one semester of full-time study)</td>
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<tr>
<td>Graduate Certificate (AQF Level 7 or equivalent)</td>
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If you have successfully completed one of the following qualifications majoring in environmental science, geology, earth science, environmental engineering, or a relevant discipline you may be eligible for exemptions as follows:

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</tr>
</thead>
<tbody>
<tr>
<td>Bachelor degree</td>
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</tr>
<tr>
<td>Graduate Certificate (honours)</td>
<td></td>
</tr>
<tr>
<td>Bachelor degree (honours)</td>
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<tr>
<td>Graduate Diploma Master</td>
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<tr>
<td>PhD (AQF Level 7 or higher)</td>
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Please note: This is an example of the program structure and program electives. Courses may change and may not be available each semester.