A Geospatial Career – An Introduction

What is Geospatial?

- Geospatial is used to describe things and phenomenon that are associated with location.

What will you do as a geospatial professional?

- As a geospatial professional, you will work with geospatial data, which is data that identifies the geographic location of features and boundaries on Earth. Through visualisation and analysis, you will help to make sense of complex issues and phenomenon.

- You will make use of geospatial information science and technology and visualisation tools to integrate different types of information from a variety of sources. You will help stakeholders see the different perspectives of an issue and see patterns and relationships more easily.

- You will learn and use advanced geospatial analytics and modelling techniques to uncover new insights on issues. This could involve using cluster analysis to detect hotspots, modelling different scenarios influencing flow of transport, using location-allocation modelling to identify suitable sites for public services, and more.

What can you expect from a geospatial career?

- As the level of urban intensity increases and amount of geospatial information grows, geospatial professionals are vital to helping Singapore make sense of our complex environment. As a geospatial professional in the public sector, you will have the opportunity to provide a spatial perspective for a variety of issues and influence decisions on government policies and delivery of public services.

- There is demand for skilled geospatial professionals in many areas to help better understand the spatial component. Areas include health, environment, social assistance, community engagement, education, transport, urban planning, water, energy, security, and more. You can expect to manage projects and apply your knowledge across different domains.

- The geospatial industry and technology is developing rapidly, and you will be at the cutting edge of technological advances in the collection, visualisation and analysis of data. You will be growing continually and grappling with issues that have no precedents, some of which do not even exist yet.

Find out more

- The Geospatial Revolution is a series of 4 short videos that examines how geospatial data influences our world.

- Maps and the Geospatial Revolution is a short online course with hands-on lab assignments using basic geospatial tools.

- The SG-SPACE Singapore Country Report is a document reporting on Singapore’s geospatial information activities prepared for the United Nations Global Geospatial Information Management Secretariat.
**Undergraduate Scholarship**

**Singapore Geospatial Scholarship**

**Agencies Offering the Local & Overseas Undergraduate Scholarship:**
- Singapore Land Authority (SLA)
- Infocomm Development Authority of Singapore (IDA)
- Jurong Town Corporation (JTC)
- National Environment Agency (NEA)
- Urban Redevelopment Authority (URA)
- Public Utilities Board (PUB): **Overseas Undergraduate Only**

**Eligibility**
- Singapore Citizen
- Full-Term Scholarship: ‘A’ level, International Baccalaureate and Polytechnic
- Mid-Term Scholarship
  - Local Scholarship
    - NUS Bachelor of Arts with a major in Geography and a minor in Geographic Information System (GIS)
    - Other courses of study in the local approved universities with at least a specialisation or minor in GIS
  - Overseas Scholarship: Geospatial and geospatial-related courses of study in approved overseas universities.
- Active participation in Co-Curricular Activities (CCA) with strong leadership qualities
- Medically fit

**Course of Study**

- **Local Undergraduate Scholarship**
  - Course of Study
  - NUS Bachelor of Arts with a major in Geography and a minor in Geographic Information System (GIS)
  - Other courses of study in the local approved universities with at least a specialisation or minor in GIS.

- **Overseas Undergraduate Scholarship**
  - Course of Study: Geospatial and geospatial-related course of study in approved overseas universities. Some examples of courses of study:
    - Geomatics
    - Geoinformatics
    - Spatial Information Science
    - Geographic Information Technology
    - Geographic Information System
    - Remote Sensing
    - Geology

**Service Commitment**

Both the local and overseas scholars will work in 2 of the participating agencies while serving their bonds. The service commitment of the bond is:
- Local Undergraduate: 4 years bond
- Overseas Undergraduate: 5 or 6 years bond depending on the country of study
Value of Award

Local Undergraduate Scholarship
- Tuition and other compulsory university fees
- Maintenance Allowance
- Pre-Studies Allowance
- Sponsorship for geospatial industry courses and seminars
- Hostel Allowance: Scholars are strongly encouraged to stay in the university hostel for at least an academic year.
- Overseas student exchange programme allowance: Scholars are strongly encouraged to participate in the university overseas student exchange programme. Allowances will be covered in accordance with the scholarship policy.

Overseas Undergraduate Scholarship
- Tuition and other compulsory university fees
- Maintenance Allowance
- Pre-Studies Allowance
- Return Airfare
- Sponsorship for geospatial industry courses and seminars

Career Development
- Distinctive features of the Singapore Geospatial Scholarship:
  - Build a specialist professional career in geospatial and geospatial-related technologies; a growing and thriving industry
  - Plug in to the latest geospatial technological arena and attend the latest geospatial seminars and programmes.
  - Serve as evangelists to promote the growth and development of the geospatial and geospatial-related technologies in the public sector and geospatial industry.
  - Benefit from the expertise of 7 public agencies and the opportunity to work in 2 of these participating agencies during his bond period.

Application and Selection Process
- To apply, please fill in the application form and email us together with your examination transcripts, testimonials and CCA records to lawrence_ang@sla.gov.sg. Applicants for the scholarship can indicate up to 3 of the participating public agencies offering the undergraduate scholarship for consideration in his application.
- Suitable applicants will be shortlisted and notified for the selection interviews, psychometric and technical tests, if applicable. Successful applicants will serve their bonds in 2 of these participating public agencies.
- Closing Date for Application: 2 weeks after the release of the ‘A’ level results
- Application Form for Singapore Geospatial Scholarship ->
POSTGRADUATE SCHOLARSHIP

Agencies Offering the Overseas Postgraduate (Masters) Scholarship

- Singapore Land Authority (SLA)
- Jurong Town Corporation (JTC)
- National Environment Agency (NEA)

Eligibility

- Singapore Citizen
- Full-Term Postgraduate (Masters) Scholarship: A basic degree from a reputable university
- Mid-Term Postgraduate (Masters) Scholarship: Students currently pursuing a geospatial or a geospatial-related postgraduate course of study in a reputable overseas university
- Medically fit

Course of Study

Overseas Postgraduate Scholarship

Course of Study: Geospatial and geospatial-related course of study in approved overseas universities. Some examples of courses of study:

- Geomatics
- Geoinformatics
- Spatial Information Science
- Geographic Information Technology
- Geographic Information System
- Remote Sensing
- Geology

Service Commitment

- Service commitment of the bond: 3 years
- Bond obligations with one of the participating agencies offering the postgraduate overseas scholarship
- Work attachments and in project teams of the participating public agencies of the scholarship

Value of Award

- Tuition and other compulsory university fees
- Maintenance Allowance
- Pre-Studies Allowance
- Return Airfare
- Sponsorship for geospatial industry courses and seminars

* You will not receive a salary during your post-graduate studies.
Career Development

- Distinctive features of the Singapore Geospatial Scholarship:
  - Build a specialist professional career in geospatial and geospatial-related technologies; a growing and thriving industry
  - Plug into the latest geospatial technologies arena and attend the latest geospatial seminars and programmes
  - Serve as evangelists to promote the growth and development of the geospatial and geospatial-related technologies in the public sector and geospatial industry.

Application and Selection Process

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- Only shortlisted applicants will be notified.

- Suitable applicants will be shortlisted and notified for the selection interviews, psychometric and technical tests, if applicable. Successful applicants will serve their bonds in one of the participating public agencies.

- Closing Date for Application: 2 weeks after the release of the ‘A’ level results

- Application Form for Singapore Geospatial Scholarship ->

[SGS Scholarship Application Form]