



GE3550A

GIS Internship Module

DHI Water & Environment (S) Pte Ltd is providing internship **via the GE3550A GIS Internship Module (during AY2008/09 Semester 1)** for 1-2 GIS Minor final year/graduating students.

Criteria:

- Students who **major in Geography and minor in GIS**
- Course work in GE2215 Introduction to GIS and GE2227 Cartography and Visualization is required. Applicants with additional course work in GE3238 GIS Design and Practice and GE3216 Applications of GIS and Remote Sensing are preferred.
- Excellent written and communication skills
- Competent in the use of ArcGIS software for data management and layout creation
- Competent in processing and interpretation of remote sensing data
- Good time management, able to work under pressure, self motivated and ability to work independently or as a team
- Competent in the use of AutoCAD and Photoshop will be an advantage

As an intern, the student will get the opportunity to familiarize with DHI's work culture, and the use of GIS in environmental projects in Singapore. In addition to general GIS tasks, the interns may be exposed to:

- Daily routines and responsibilities of a GIS staff
- Human relations
- Various computer applications
- Various field and habitat surveys
- Safety awareness
- Quality control
- Productivity

Interns who demonstrate a good performance during the internship may be considered for employment upon completion of the internship.

If interested, please download the application form from the GIS Minor website at <http://www.fas.nus.edu.sg/geog/programmes/GISminor.html>. Click on "Internship" to find the link for the form. Please submit your application to Mr. Lee Choon Yoong at the Geography General Office **by 6:00PM on 21 May (Wednesday)**.

The interviews would be held for selected applicants in end May / 1st week June. Selected students may undergo a short introduction in June. If the selected students are available during the university vacation period, they may begin their internship immediately. The period before the new semester begins in August, however, will be a regular internship and NOT considered part of GE3550A. DHI will provide remuneration (market internship rate) for the internship period before the module starts in August.

GE3550A GIS INTERNSHIP MODULE (GISIM) Module Description

Synopsis:

This module presents Geography majors who are taking/intend to declare GIS minor a unique opportunity to gain practical experience in using GIS. It allows the students to apply their geospatial technology skills, such as spatial database management, data visualization, and data analysis, in a real working environment. Through mentoring from internship managers of employing companies/public sectors and NUS advisors, students are trained to apply theoretical aspects of GIS for solving real-world problems. They will also be able to collaborate with colleagues from the employing company or agency, and develop research questions involving the use of GIS in environmental issues.

Pre-requisites/Co-requisites:

The GISIM is for Geography majors who are taking/intend to declare GIS minor, subject to the specific requirements of the hiring company or government agency. Students must have completed GE2215 Introduction to Geographic Information Systems, before taking this module. Some companies may also require students to pass GE2227, GE3238, and/or GE3216.

Workload:

Maximum 200 hours in the company within the Semester.

Evaluation:

1. **Student's Written Essay (CA: 50%):**

Interns are expected to furnish a 2,000-3,000 word essay at the end of the internship detailing the work accomplished, challenges faced, solutions proposed, and how the principles/concepts learned in the fundamental GIS modules in NUS have been applied in the workplace. The essay should also critically evaluate the internship experiences, providing feedback on what is good and what can be improved about the internship.

The workplace supervisor will be asked to supply a report on the intern's work attitude, creativity, initiative, ability to propose solutions, etc. This report will be used by the Geography lecturer as a necessary touchstone in assessing the student's performance.

2. **Final Presentation (CA: 30%):**

Interns are expected to orally present their experiences at the end of the internship. The 20-30 minute presentation with 10-20 minutes of discussion should include the issues and parameters involved in the internship, and discuss theories, approaches and concepts learnt in class and their application in the workplace.

3. **Journal (20%):**

Interns will need to keep a personal journal during their time on GISIM and submit the journal with the written essay. The journal should include detailed breakdown of the work, problems encountered, solutions employed, and self-assessment of the task accomplished.