

GEOSPATIAL ANALYST INTERN

We are seeking 3 promising and self-motivated Geospatial Analyst Interns to support the long-term growth and success of Conservation International's work in the Asia-Pacific Field Division for a period of 3-6 months. The intern will have the opportunity to work alongside Conservation International's team in the Asia-Pacific to support the development of machine-learning algorithms for land cover classification, assess the accuracy of land cover maps, and validate land cover classification outputs throughout priority sites such as the Philippines.

The Geospatial Analyst Intern position is open to undergraduate or Master's level students in local universities reading Geography, Environmental Studies, Earth Systems Science, Spatial Analysis, or related fields.

About Conservation International

Conservation International works to spotlight and secure the critical benefits that nature provides to humanity. Since our inception in 1987, we've helped to protect more than 6 million square kilometers of land and sea across more than 70 countries. Today, with offices in more than two dozen countries and a worldwide network of thousands of partners, our reach is truly global. Building upon a strong foundation of science, partnership, and field demonstration, Conservation International empowers societies to responsibly and sustainably care for nature, our global biodiversity, for the well-being of humanity.

Conservation International Singapore envisions a vibrant, resilient and sustainable city for generations to come. Partnering with companies, governments and communities, Conservation International Singapore strives to promote sustainable development, climate finance, and blue carbon research to support positive climate action. Our programs provide educational resources and access to conservation science and mentorship to inspire youth to pursue green careers and advocate for nature.

Conservation International Values

We expect that all employees will embrace the values of our organization:

- **Passion:** Inspired by people and by nature, we are urgently compelled to drive change for a sustainable future.
- **Integrity:** We are honest, transparent and accountable for our actions.
- **Teamwork:** We work together as one Conservation International, recognizing that inclusion, collaboration and cooperation are fundamental to achieving a healthy and prosperous world for all.
- **Respect:** We respect each other and work to earn trust, valuing our diversity of cultures, talents, and experiences.
- **Courage:** We pursue our vision, taking bold action, persevering and overcoming challenges.
- **Optimism:** We are optimistic about the capacity of people to be caring, generous and brilliant, and believe that with partners, we can inspire humanity to create a better future.

Location

Singapore (hybrid-working)

Must have stable and secure internet access for work.

About the Project

Conservation International Asia Pacific has recently launched the Asia Pacific Technical Assistance Facility (TAF), a multi-donor facility, to provide technical support and invest in Natural Climate Solutions (NCS) projects and enabling conditions. Projects include [REDD+](#), landscape restoration, and Blue Carbon mechanisms and the NCS Carbon Development Team which provides technical management for the origination, design, and implementation of carbon projects.

An example of a project the NCS Carbon Development Team is focusing on is [Mount Mantalingahan](#), the highest peak in Palawan Province in the Philippines. The mountain range has been home to the Indigenous Pala'wan for thousands of years and provides an essential watershed for the 200,000 people who depend on it for agriculture, drinking water, and livelihoods. Like many forests in the region, the Mount Mantalingahan Protected Landscape is threatened by illegal logging, wildlife poaching, mangrove loss, agro-industrial development, and unsustainable mining. Using science-based policies designing conservation programs, and monitoring the landscape, Conservation International and the management board of the protected area aim to achieve zero net loss of forest and ecosystem services in the targeted sites.

Geographic Information Systems and Remote Sensing are key components for the operations of these carbon projects which rely on spatial analyses to support protected area management and the quantification of carbon emissions. This internship will provide the opportunity to engage and support the development of these tools and data products.

About the Role

Working with the Senior Director of Carbon Development based in Singapore and colleagues in the Asia-Pacific Field Division, the intern will provide support in the following areas:

- Support the development of machine-learning algorithms for land cover classification and assess the accuracy of land cover maps throughout priority sites in the Philippines, in partnership with SERVIR-Mekong Spatial Informatics Group (SIG), a geospatial data-for-development program that responds to the needs of Lower Mekong countries.
- Land cover map validation, statistical sampling, and other digitization work in NCS Carbon Development Team project areas using cloud-based GIS tools like Collect Earth Online.
- Support the Regional GIS Coordinator with geospatial analysis and database management for projects in the Asia-Pacific Field Division.
- Perform geospatial analyses, data acquisition, and cartographic mapping on an ad-hoc basis for various project needs across the Asia-Pacific Field Division.

Qualifications

- Current enrolment in a Singapore university (or gap year), reading an undergraduate or Master's degree with a focus on Geography, Environmental Studies, Earth Systems Science, Spatial Analysis, or related fields.
- Proficiency in spatial analysis, mapping, and the use of remote sensing and associated software (e.g. ArcGIS, QGIS, Google Earth Engine).
- This position is only open to candidates who are Singaporean citizens or Permanent Residents (PRs).

Desirable Qualities

- Independent thinker and worker.
- Advanced analytical skills.
- Understanding of statistical models.
- Works well in a team.
- Interest in forest management and mapping.

Benefits

The intern will be provided with a monthly stipend of SGD 1,000 for a 5-day work week.

Application

To be considered for this internship, please apply to singapore@conservation.org with the subject "**Application: Geospatial Analyst Intern – [full name]**" and the following attachments:

1. Curriculum vitae.
2. Cover letter, which should include the applicant's interest in working with Conservation International's field programs in the Asia-Pacific and any relevant experience working in an NGO or environmental conservation setting.
3. Period of availability (indicate availability in your cover letter).
4. Sample maps/projects to show experience and skills working with GIS software.

Shortlisted candidates will be invited for an interview.