

BUSHFIRE GREENHOUSE GAS EMISSIONS MAPPING INTERN

We are seeking a promising and self-motivated Bushfire Greenhouse Gas (GHG) Emissions Mapping Intern 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 New Caledonia to support the local government and stakeholders by planning bushfire management projects and monitoring the effectiveness and impact of these programs.

The Conservation International University Internship Program is open to undergraduate or Master's level students in local universities reading Geography, Environmental Studies, Life Sciences, 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.

In Singapore, Conservation International envisions a vibrant, resilient and sustainable city for generations to come and aims to empower the community to protect nature through individual and collective action. Conservation International Singapore's country program is focused on community engagement and education, capacity building through student internships, and exploring and supporting innovative solutions for conservation science and research.

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 CI, 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 at home for work.

About the Project

The Natural Climate Solutions (NCS) Investment Accelerator goal is to aggregate corporate demand for 1 Gigaton of CO₂e emissions from NCS reductions and removals per year by 2025. Recognizing improved bushfire management for both climate adaptation and mitigation as NCS goals, Conservation International aims to protect 150,000 hectares of priority watersheds that are under restoration.

Bushfires are widely and traditionally used in New Caledonia, the world's smallest biodiversity hotspot, for maintaining crop fields and hunting grounds. Exacerbated by invasive species, climate and societal changes, bushfires have razed large forest areas and have extended beyond the parts that provided basic human needs. These disastrous impacts resulted in about 0.5% of forest loss every year, deterioration in water quality due to erosion, and a decline in the health of the coral reefs. Forest restoration efforts are also severely compromised because of the bushfires. Uncontrolled fires not only threaten houses, property, and the lives of local communities, but GHG emissions related to forest loss and bushfires account for 5-20% of the national GHG emissions.

Because forests play a crucial role in maintaining healthy island ecosystems and human survival, New Caledonia is considering the inclusion of Nature (Land Use, Land Use Change and Forestry: LULUCF) in its contribution to the Paris Agreement. Setting objectives under the LULUCF sector requires a good understanding of the metrics, scale and process at stake.

In order to reduce the scale and impact of future bushfires and related GHG emissions, Conservation International has the unique opportunity to support the New Caledonia government and other stakeholders by:

- Planning culturally sensitive bushfire management projects and programs.
- Monitoring the effectiveness and impact.

The intern will contribute to a reliable understanding of the areas that are most impacted by wildfires in terms of forest loss, forest regeneration prevention and GHG emissions.

About the Role

Working with the Terrestrial Conservation Officer and CI's team in New Caledonia, the intern will focus primarily on bushfire management and provide support in the following areas:

- Contribute to the updating of GHG emissions (methodology and actual data) due to nature degradation.
- Identify areas by municipalities, customary areas, district, tribe, etc., concentrating on forest loss using available spatial information from sources such as Tropical Moist Forest and Global Forest Watch.

- Identify most relevant areas for forest restoration and regeneration, considering additionality and permanence.

Qualifications

- Current enrolment in a Singapore university (or gap year), reading an undergraduate or Master's degree in Geography, Environmental Studies, Life Sciences, or related fields. Proficiency in spatial analysis, mapping, and the use of remote sensing and associated software (e.g. ArcGIS, QGIS, Google Earth Engine).

Desirable Qualities

- Independent thinker and worker
- Interest in adaptive ecosystem and land management

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: Bushfire Greenhouse Gas Emissions Mapping Intern – [full name]**" and the following attachments:

- Curriculum vitae
- 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.
- Period of availability (indicate availability on your cover letter).
- Writing sample.
- Sample maps/projects to show experience and skills working with GIS software.

Shortlisted candidates will be invited for an interview.