

Climate and Nature Related Disclosures Geospatial Solutions Builder

Code: 23/43

Company: Earth Blox (Quosient Ltd.)

Location: Remote or hybrid (depending on location: Edinburgh, London)

Company Description:

With its unique easy-to-use interface, Earth Blox simplifies access to Petabytes of global satellite data, for global decision-makers. Satellites and planetary-scale data are available at unprecedented rates of acquisition for deforestation, urban expansion and large-scale disasters mapping. Environmental consultancies, supplychain managers, insurers, retail and decision-makers in public institutions want to access this information yet are hindered by the complexity, cost and skill levels required to exploit the data. When boots-on-the-ground are not possible (Covid-19 a particular case-in-point), then Satellite data becomes essential. Yet, to access this unique source of intel one needs solid coding-skills and Earth Observation expertise. Earth Blox removes these barriers: its innovation lies in the complete removal of coding skills, making space data accessible to the masses, globally. Earth Blox is a cloud-based software that enables planetary scale, near real time data analysis for climate mitigation and disaster mapping.

The intern would join a dynamic, mission-driven and award-winning team. We have received funding from the Royal Society of Edinburgh, Innovate UK and won both the highly competitive Converge Challenge and Scottish Edge prizes in 2020. We are considered a High Growth Venture by Scottish Enterprise.

Project Description:

The ability for the financial industry to assess and price the risk and impact of activities to climate change requires the disclosure of key information. Therefore the Taskforce on Climate-related Financial Disclosures (TCFD) has been set up to recommend what information should be shared by organisations. The reason for this is the impact that climate change could have on business and livelihoods, so accounting for this early will be really important. Similarly, the Taskforce on Naturerelated Financial Disclosure aims to look at the risk of nature loss to businesses and livelihoods, aiming to enable organisations to integrate nature into their decision making. Geospatial data will play a big role in helping organisations achieve this, and with growing moves towards making disclosures mandatory rather than voluntary, this will be an area where Earth Blox can help support organisations.

During this project, the intern will support the development of a library of high value geospatial solutions for TCFD and TNFD. This will include looking at models for

climate change scenarios, and understanding the key metrics that will impact risk. This work will involve market research through a combination of meetings/calls with end-users as well as reviewing published materials, to understand the high-value workflows and the end user requirements. Once the particular tasks have been identified, the intern will review a range of literature (including peer-review articles) and existing code-based solutions. The intern will then recreate the identified methodologies in Earth Blox, and where necessary feeding into and potentially contributing to our development roadmap to expand the functionality of Earth Blox to support these use-cases. There is also the opportunity to expand on this work to contribute to ongoing work in relation to the use of AI for improving the ease-of-use to non-EO experts.

Applicant Specification:

Minimum Requirements:

- Has attained or is in the process of attaining a Bachelors degree in Geosciences (for example Geography, GIS, Ecology, etc.).
- Knowledge and experience of remote sensing and Earth observation • Knowledge and experience of Google Earth Engine
- Ability to work in a small team.

Preferred Additional Requirements:

- Has some knowledge of TCND and TNFD
- Knowledge of Python, JavaScript, or other coding languages;

Further details:

8 weeks minimum fixed term contract to be agreed with successful candidate. Inperson/hybrid Induction Event to be held on 19 June 2023, and an in-person/hybrid Showcase Event to be held at the 2023 UK Space Conference in Belfast between 21 November to 23 November. Ideally to complete before the start of the 2023/24 academic year, though we are flexible in this case. Earth Blox are committed to being a living wage employer, and therefore pay will be £1,875 per calendar month.

Closing Date for Applications: 12pm on Tuesday 2 May 2023

Applications should be made through the online form attaching a CV, before the closing date. Please note that elements of the form left incomplete will be deemed to render the application ineligible. They will be checked for eligibility and forwarded to the employer.