# Internship: Assessing the forest gain and loss through remote sensing of WeForest's restoration projects in Ethiopia

- WeForest asbl/vzw (non-profit)
- Internship agreement (tripartite convention) or volunteering
- Location: position based in Brussels, open to remote work (EU)
- Schedule: flexible
- Duration: 3 months
- Starting date: May or June

## CONTEXT

WeForest is an international non-profit association headquartered in Belgium with the mission to conserve and restore the ecological integrity of forests and landscapes, engaging communities to implement and deliver lasting solutions for climate, nature and people. We promote science and best practices in a culture of sharing and inclusion, so that others can replicate and augment what we do.

## OBJECTIVE

WeForest has supported three forest restoration projects on the Great Green Wall in Ethiopia. In these projects, we have been working with different restoration approaches: assisted natural regeneration, direct planting, enrichment planting, direct seeding, etc. The goal of this study is to check whether available remote sensing products can inform us of the restoration success (forest gain and forest loss) of our restoration sites.

## APPROACH

- Land use and land cover change analysis;
- Analysis using the maps produced by Global Forest Watch;
- Apply algorithms such as Break detection For Additive Seasonal Trends (BFAST) Monitor to identify pixels that deviate significantly as breakpoint;
- Compare forest loss in the project areas and neighbouring areas before and after the conflict in Tigray (Desa'a project).

## REQUIRED SKILLS & QUALIFICATIONS

- Currently pursuing a Bachelor's or a Master's degree in Science, Geography, Engineering, Environmental studies or equivalent, or a professional certification in Geography, GIS, or Remote Sensing;
- You have proven expertise in remote sensing data processing and geo-information systems;
- You have sound programming skills in Python, or R, or Google Earth Engine;
- Expertise in applying machine learning techniques on remote sensing data is an asset;
- Specific expertise in SAR Remote Sensing is an asset;
- Writing and presentation skills in English is key;
- Ability to process, analyze, and model data in geospatial software (e.g., QGIS, Esri ArcGIS).
- Excellent knowledge of Microsoft Word, Excel, and PowerPoint, working knowledge of Google Docs, working knowledge of Microsoft Exchange;
- Attention to detail and a sense of responsibility;
- Good communication in English (written and spoken) and interpersonal skills.

## OUR OFFER

- Be part of a motivated and highly skilled team in an international environment;
- Contribute to promoting Forest and Landscape Restoration;
- We provide a daily allowance to compensate for meal and homeworking expenses.

**HOW TO APPLY**

Please send applications in English to recruitment@weforest.org with your CV, and a motivation letter by April 12, 2024. Due to the anticipated high number of applicants, only shortlisted candidates will be contacted for an interview. We thank you in advance for your interest.