Geographic Information System (GIS) Specialist

Rewilding Portugal is working to make the Greater Côa Valley a wilder place for the benefit of nature and people. Rewilding Portugal is now looking for a GIS Specialist to support with its activities as an external worker (external service).

Rewilding Portugal coordinates and implements rewilding activities in one of Rewilding Europe's 8 rewilding landscapes: the Greater Côa Valley. These activities are being boosted by the following projects:

- LIFE WolFlux Project "Reducing socio-ecological barriers for wolf connectivity South of the Douro River".
- "Scaling-up rewilding in the Greater Côa Valley" project of the Endangered Landscapes Programme of Cambridge Conservation Initiative.
- Conservation Project of the Private Protected Area of Ribeira do Mosteiro in Douro International Park.

Tasks

Overall, Rewilding Portugal is looking for a GIS Specialist to process and analyze drone and satellite imagery in combination of ground truth data to reliable information products that assist decision support and monitor the changes in habitat heterogeneity and landscape connectivity over time. The GIS Specialist will work, remotely, together with Rewilding Portugal's Conservation Officer and Rewilding Europe's Geospatial Coordinator.

Specifically, the GIS Specialist will work on the following tasks:

- Creation of multitemporal orthomosaics from drone images.
- Advise on drone monitoring methodology and settings.
- Performing supervised classifications (machine learning) of drone orthomosaics and satellite imagery into relevant habitat classes.
- Measure configurational and compositional heterogeneity (e.g., proportional area of each habitat type, density of patches, length of fragment edge and, mean fragment size).
- Landscape connectivity analysis based on various species.

Timeframe & Deliverables

The contract service involves the presentation of the following deliverables, over a total timeframe of 7 months:

- One map of habitat classes based on drone imagery by 15th April.
- A proposal of methodology for analysing landscape connectivity by 15th April.
- Creation of multitemporal orthomosaics from drone images (collected in May and August) by 15th September.
- One map of habitat classes based on drone imagery by 20th October.
- Baseline landscape connectivity analyses by 20th October.

Qualifications and experience

- A Master's Degree or equivalent in GIS, Environmental or Geographical sciences, with minimum 5 years of experience in related fields.
- Experience in photogrammetry software such as Agisoft Metashape, Pix4D, ESRI Drone2Map or OpenDroneMap.
- Previous experience in common geospatial analysis tools and data management tasks.
- Having carried out similar work in the past.
- Excellent written and spoken knowledge of English.
- Structured and well-organized work ethics (keeping log files and clean metadata).
- Access to relevant software packages.
- Knowledge of scripting language (Python or R) for future workflow automation is a pro.

How to Apply

The application should contain:

- **Portfolio** including previous similar outputs than the ones required.
- **Updated CV** to include qualifications/competencies and relevant experience and contact details of two professional references.
- Financial proposal with breakdown of the cost items.
- Individual applicant will be evaluated based on a combination of factors including **cover letter, CV**, and **the financial offer** which gives the **best value for money.**

Applications are accepted **until 15th February** and the expected started date for the position is **1st March**. Applications should be submitted by email to **info@rewilding-portugal.com**