POSTDOCTORAL RESEARCHER ASSOCIATE ON REMOTE SENSING OF WETLANDS FOR ALFAwetlands PROJECT (ref. 22-049-03784)

CREAF is seeking to appoint a post-doctoral researcher to work on the ALFA-wetlands project (Wetland restoration for the future), funded under the Horizon Europe Framework Programme (HORIZON-CL5-2021-D1-01-08, 101056844) and financed by European Commission.

A full-time contract is offered (37,5h per week), with a planned incorporation in October 2022 with an initial duration of 3 years. The salary offered is 30.471,75€ gross per year.

TASKS

- Land cover and vegetation classification of wetlands with decametric-resolution satellite data (Landsat and Sentinel-2) and machine learning techniques.
- Validation of the land cover and vegetation maps using post-stratified random sampling.
- Mapping long-term phenology and land cover change in wetlands using Landsat time series.
- Upscaling of in situ measurements of carbon-fluxes using remotely-sensed data and machine learning techniques.
- Determination of the effects of global change on vegetation phenology and carbon fluxes in wetland ecosystems.
- Reporting and communication tasks of the project related to his/her working area.

REQUIREMENTS

- PhD Degree in remote sensing of terrestrial ecology.
- Advanced user of statistical software (Python and MATLAB software).
- Advanced user of Google Earth Engine and proven experience with Earth Engine apps.
- Proven experience of global-scale land cover classification and validation using decametric-resolution satellite data and machine learning techniques.
- Proven experience of more than 4 years in the study of global ecology using remotely-sensed data and in situ measurements of carbon fluxes.
- Proven experience of more than 4 years in the study of vegetation phenology.
- Capacity for teamwork.
- Catalan and English spoken and written correctly.

ASSESSABLE CONDITIONS

- Doctoral degree in global change related subject.
- MSc Degree in geospatial sciences.
- Work experience in intergovernmental institutions of the European space sector (EU's Joint Research Center or European Space Agency).
- Previous experience in managing large geospatial datasets and cloud-based platforms.
- Previous experience in the study of the responses of vegetation dynamics to global change.

SELECTION PROCES AND CRITERIA

The selection process is led by the research project team, and will be overseen by the Management Office and the Human Resources Area of CREAF. This process consists of:

1. Admission of candidates: **applicants must submit a *curriculum vitae*, a cover letter (maximum 500 words) and the questionnaire attached to the offer (filled), by e-mail to laboral2@creaf.uab.cat , until 19 august 2022, indicating the reference code of the offer.** Applications referred to another portal, other than CREAF job openings section and the instructions included in this, will not be accepted.
2. Pre-selection: determination of compliance with the minimum requirements of the offer.
3. Selection: assessment of the preselected candidates by scoring based on objective criteria.
4. Final decision: in case of finding the suitable person, the election will be formally communicated to him/her, and the identification of the chosen person will be published on CREAF job openings section.