

Offer code: 30267359998

Offer name: Remote sensing expert to support the ERC-Starting grant CAMPS project

OFFER DETAILS

Unit of Affiliation: Architectural Projects

Scientific and technical activities contract

Working conditions: **Expected duration of financing initially linked to the contract:** 12 months

Generic Profile: Higher Level Research Support Technician **Group:** 2 **CLT:** U

Annual gross salary: €32,561.34/year (per full-time position) **Expected start date:** 1-04-2026

Day: 18 h./set. **Scheduled time:**

Areas of knowledge Humanitarian architecture

PROJECT DATA

Project name: "HORIZON - 101222330 - CAMPS - Enhancing Resilient Refugee Settlements through Innovative Spatial Information Contributions"

Project website

Name of the research group

Research Line

Project code: E-01981 **Call:** HE - ERC Projects

Euraxess offer link: <https://euraxess.ec.europa.eu/jobs/408328>

SELECTION PROCESS

Application submission deadline: March 2, 2026

Date of establishment of the court: March 5, 2026 at 9:00 a.m. via Google Meet

Development of the selection process

Once the application period has ended, the secretariat of the panel may contact registered candidates to request the mandatory documentation that has not been provided or to request additional documentation for the assessment of the candidacy. The panel will carry out an initial curricular assessment of the suitable candidates, and if it considers it appropriate, it will call for tests and/or interviews to those who pass the curricular assessment. The date and place of the interviews and/or tests will be set by the panel and will be communicated, in good time, to the persons invited to the email address they provided in their application. The call will also be published on the website <https://talenthub.upc.edu/en/jobs/psr/psr-jobs-folder/research-support-staff>.

Candidates must be available to carry out the test and/or interview using the Google-Meet computer tool.

COURT DETAILS

Unit representative: Nerea Amorós Elorduy

Composition of the court: **Substitute Unit Representative:**

PTGASL Committee Representative: To determine

Personnel Service Representative: Lourdes Moreno de Francisco



JOB DESCRIPTION

Objective of the recruitment

Support the CAMPS project for advanced spatial data production and analysis, with a focus on satellite imagery remote sensing, machine learning-based urban and architectural mapping, GIS and drone photogrammetry for 3D results of specific case studies. This role directly contributes to the development of a high-resolution comparative spatial atlas of long-term refugee camps by integrating satellite imagery, field-based spatial data and participatory information.

REQUIREMENTS

Higher university degree; Bachelor's degree (old degree), University degree (new degree), official University Master's degrees.

PROFESSIONAL PROFILE

Studies Telecommunications Technology and Services Engineering, Civil, Geography or similar disciplines

Professional Specialty Remote sensing with satellite images and drones

Knowledge Holistic sustainability and ecosystem resilience.

Languages Catalan, Spanish and English spoken, read and written.

It will be assessed: *Knowledge of other languages: French, Swahili, Arabic, Urdu, Pashto, etc.*

Submission of a one-page motivation letter describing how the applicant's specific experience and skills can support the tasks outlined in the job description and advance the CAMPS project and goals.

Technical Skills

- GIS software: QGIS and/or ArcGIS applied to urban or settlement-scale analysis.
- Photogrammetry with drones for urban and architectural analysis.
- SAR and optical images for settlement analysis.
- Remote sensing, machine learning and spatial analysis: Python.
- Processing and integration of LiDAR data: aerial or terrestrial.
- Cloud-based geospatial platforms: Google Earth Engine.
- Machine learning models for spatial classification or cartography from satellite images.

Professional Experience

- In remote sensing of satellite images, including acquisition, preprocessing and data analysis.
- In photogrammetry and spatial data products derived from drones.
- In the processing and integration of LiDAR data (aerial or terrestrial).
- In logistical support and regulatory processes related to drone operations.
- Have worked in humanitarian, development, informal settlements or crisis-affected contexts.
- Experience in functions similar to those described will be valued, specifically in the development of research activities, both in the university and industrial environment.

Functions

- Support the acquisition, management and analysis of high-quality satellite imagery (commercial and open access) for urban and settlement-scale studies of refugee camps, assisting in the selection of sensors and data sources based on context, resolution and budget.
- Develop and refine machine learning models to generate detailed urban maps from satellite data, ensuring reproducibility and documentation for open access results.
- Integrate satellite analysis, machine learning results, LiDAR and field data into standardized GIS datasets, providing guidance on data structuring, metadata and quality control.
- Process LiDAR data to support 3D analysis of terrain and settlements, integrating it with other spatial datasets to improve accuracy and create 3D models.



Plan, execute and process drone-based data collection, generating GIS-ready products and training the team during field missions.

Navigate drone regulations and ensure ethical, legal and safety compliance in humanitarian contexts.

Act as the project's spatial data expert, ensuring data quality, workflow consistency, and contributing to publication and reporting results.

Other requirements to consider

Ability to work collaboratively within interdisciplinary and international teams.

Willingness to participate in fieldwork in complex humanitarian environments.

Ability to work with large geospatial data sets and ensure data quality and reproducibility.

Ability to advise on sensor selection, spatial resolution tradeoffs, and data limitations in complex environments.

OTHER INFORMATION OF INTEREST

Project summary

The CAMPS project, funded by the European ERC Starting Grant programme and led by Professor Nerea Amorós Elorduy, operates within the Projects Department of the School of Architecture (ETSAB) of the Polytechnic University of Catalonia (UPC). With a duration of five years, this research initiative carries out a comprehensive, comparative and multi-scale analysis of long-term refugee camps, integrating architectural, urban, ethnographic, geographical and participatory methods. Its aim is to develop an open access spatial atlas of these camps, generate new theoretical perspectives on refugee and urban studies, and inform policies on settlement sustainability and ecosystem resilience. The study examines the spatial characteristics, growth and lived experiences within camps around the world, using urban studies, architecture, human geography, ethnography, remote sensing and participatory approaches.

Key objectives include creating the first global spatial atlas of long-term refugee camps, documenting their evolution at multiple scales, and exploring how spatial conditions impact resilience, sustainability, and daily life, while incorporating the perspectives and imaginaries of affected populations.