

Seville, 21 February 2023

## Spatial Thermal and CO<sub>2</sub> Data Junior Analyst (STCODJA)

Vacancy – Terms of reference

### A. Job description

**JOB TITLE:** Spatial Thermal and CO<sub>2</sub> Data Junior Analyst (STCODJA)

**PURPOSE:** The spatial data junior analyst will provide technical support specialised in remote sensing and geographical information systems to collect and analyse the corresponding data

**LOCATION:** LifeWatch ERIC ICT-Core premises in Andalusia (Spain)

**FUNDING RESOURCES:** LifeWatch ERIC ICT-Core in Spain – Andalusia ERDF Project Framework: Alboran Project

### B. Main responsibilities

- I. S/he will work under the supervision of, and always directly report to, the IP of the Andalusia ERDF projects; as well as the LifeWatch ERIC CTO in the development of the City Biodiversity Index and other related projects when necessary;
- II. S/he will conduct bibliographical revision of methodologies for monitoring of thermal environment and carbon storage at local level;
- III. S/he will be in charge of the conceptual development for data collection, processing and analysis for urban heat island effect, biomass estimates and carbon storage and sequestration;

- IV. S/he will be in charge of the data collection of available sensor data;
- V. S/he will support data harmonisation, data documentation and creation of a database for comprehensive data management and retrieval;
- V. S/he will be responsible for data generation from satellite imagery (Sentinel 2, 3, Landsat), including:
  - a. Calculation of urban heat island effect for the City of Malaga;
  - b. Calculation of vegetation cover for the City of Malaga.
- VI. S/he will be responsible for processing carbon storage and thermal maps;
- VII. S/he will be in charge of designing and creating thematic maps and tailor-made graphics.

### **C. The ideal candidate should meet the following requirements:**

- I. Junior specialist in remote sensing and geographic information systems (minimum 2 years' experience);
- II. Advanced knowledge of environmental data processing with Google Earth Engine and R;
- III. Advanced knowledge of GIS software (QGIS, ArcGIS);
- IV. Intermediate knowledge in programming (e.g., JavaScript, Python) applied to geospatial analysis;
- V. Excellent presentation and reporting skills, fluency in written and spoken English (LifeWatch ERIC official language) & Spanish (ICT-Core premises hosted by Spain);
- VI. Proven organisation and communication skills, proactive, capacity to work in teams and to tight deadlines, in international environments and multi-language contexts;

- VII. Ability to launch publications related to the subjects discussed in this document. In this sense, publications published to date, book contributions, interventions in conferences and/or workshops related to the subjects discussed will be valued;
- VIII. Willingness to travel abroad according to the specific working needs of this position;
- IX. High-standard work ethic.

## ASSETS

- IT skills: Proficiency in Microsoft Office package, analytical and graphical tools appropriate for the work to be performed.
- Knowledge of urban biodiversity and the carbon cycle would be an asset.
- Understanding of the structure, functioning and regulation of the European Research Infrastructure Consortia (ERICs), in particular ICT, biodiversity and ecosystem areas.
- Work experience in international research centres and European projects.

## D. The vacancy is subject to the following procedure

- A **short covering letter** and **Curriculum Vitae**<sup>1</sup> (EUROPASS format and annexes, 6 pages at the most) shall be submitted to the Chief Technology Officer and Director of the ICT-Core at [cto@lifewatch.eu](mailto:cto@lifewatch.eu) and in cc to [hiring@lifewatch.eu](mailto:hiring@lifewatch.eu) by **9 March 2023**. Please write '**Spatial Thermal and CO<sub>2</sub> Data Junior Analyst STCODJA**' in the email subject;

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<sup>1</sup>Special note for Italian market: According to Italian Privacy Protection Law n. 196/03 any resume not mentioning explicitly the following wording: 'I authorise the use of my personal data in accordance with Italian Privacy Protection Law (30/06/2003, n. 196/03)' will be automatically deleted from our database and consequently not taken into consideration.

- The selection process will follow the Employment Policy of LifeWatch ERIC;
- S/he will be appointed with competitive gross salary, based on the qualifications and experience of the candidate, will be offered. Employment will be in Spain, follow Spanish employment law and be subject to a 180-day trial (probation) period;
- Her/his main office will be located at the LifeWatch ERIC ICT-Core premises in Seville (Spain), without prejudice to the establishment of others in the future;
- Start date in office for the appointed person: **March 2023**.

**LifeWatch ERIC is an equal opportunity employer, and encourages all qualified candidates to apply, regardless of race, gender, age, national origin, or sexual orientation.**