

Data Management Specialist

Vacancy – Terms of reference

Job description

PURPOSE: The Data Management Specialist position aims to spearhead data initiatives across various projects within the environmental sciences domain, contributing expertise in data management, data harmonisation and standardisation and support in developing data strategies and frameworks in collaboration with international stakeholders. This position offers an opportunity to enhance data management strategies within the LifeWatch ERIC framework, promoting collaborative research and enabling insights into biodiversity and ecosystem dynamics.

JOB TITLE: Data Management Specialist

LOCATION: ICT-Core premises in Sevilla, Spain

POSITION: Full-Time

FUNDING RESOURCES: Horizon Europe Projects among others

Main responsibilities

- Identify existing data sources throughout Europe for different disciplines within environmental sciences (e.g., agroecology, microbiology, molecular biology or/and soil ecology), their availability, degree of digitalisation, formats, and compliance with established vocabularies and standards, and support the integration of diverse data from different sources in the LifeWatch ERIC infrastructure;
- Investigate standardised vocabularies, ontologies, and data management procedures relevant to LifeWatch ERIC and participate in international meetings and working groups to contribute to the development of new vocabularies and standards;

- Contribute to the process of harmonisation and standardisation of data, covering the different steps during the full data lifecycle (e.g., data collection, data documentation - metadata-, data integration - repositories, analysis and visualisation) in both domain-specific and cross-domain standards.;
- Support the engagement with stakeholders, including researchers, policymakers, and industry partners, in the development of our data infrastructure and tools, ensuring alignment with their needs and priorities;
- Gather data management requirements to support monitoring needs for biodiversity and ecosystem research within LifeWatch ERIC;
- Participate in project meetings to discuss data management needs with project partners and contribute to the development of data management strategies aligned with LifeWatch ERIC's goals;
- Develop Data Management Plans following LifeWatch ERIC and European Commission guidelines;
- Provide training to stakeholders on FAIR data management practices, including the use of state-of-the-art tools and technologies for data collection, curation, and analysis;
- Ensure that the data FAIRness (Findable, Accessible, Interoperable, Reusable) principles are upheld;
- Interact with researchers and help to translate research questions into data needs and solutions;
- Contribute to the implementation and continuous improvement of LifeWatch ERIC data management framework.

The ideal candidate should meet the following requirements

- Master's or Ph.D. degree in a relevant field (e.g., ecology, environmental science, bioinformatics) with a focus on agroecology, biodiversity, or microbial diversity;
- Minimum 3-year experience as data manager or similar role;
- Proven experience in data management, including data analysis, curation, and integration, preferably in the context of biodiversity research;
- Familiarity with standardised vocabularies, ontologies, and data management procedures;
- Knowledge on the definition of indicators is a plus;
- Experience in the design and development of data pipelines, relational databases and knowledge graphs is an added value;
- Strong analytical and problem-solving skills, with the ability to explore and interpret complex datasets effectively;
- Excellent communication and interpersonal skills, with the ability to collaborate effectively with multidisciplinary teams and engage stakeholders from diverse backgrounds;
- Experience in developing Data Management Plans (DMPs) and implementing data policy and governance models;
- Proficiency in programming languages (e.g., Python, R) and data management tools is desirable;
- Knowledge of GIS (Geographic Information Systems) and remote sensing techniques is a plus;
- Expertise in semantic data management and a solid understanding of RDF (Resource Description Framework), SPARQL, and APIs for data access and manipulation;
- Research background and a research-oriented mindset are preferred.

- Proficiency in English (C1 level) is required;
- Participation in Framework Programme projects (Horizon 2020, Horizon Europe) is desirable;
- Proven organisation and communicative skills, proactivity, capacity of working in teams and under tight deadlines, in international environments and in multi-language contexts;
- Availability to travel abroad occasionally according to the specific working needs of this position;
- Ability to learn and develop skills as needed to support services outside of this job description.
- High-standard work ethics.

The vacancy is subject to the following procedure

- A **short covering letter** and **Curriculum Vitae¹ (EUROPASS format and annexes, 4 pages at the most)** shall be written in English and submitted by **15 April 2024**. Please use the form available at this link: <https://zfrmz.eu/KHxMv15EmgLXfczD6kdD> ;
- The selection process will follow the Employment Policy of LifeWatch ERIC;
- Only shortlisted candidates will be re-contacted. Selected candidates may be called for an interview. Interviews will take place from **15 April 2024 to 19 April 2024**;

¹ Special note for Italian market: According to Spanish Privacy Protection Law n. 196/03 / Ley Orgánica 3/2018 / any resume not mentioning explicitly the following wording: 'I authorise the use of my personal data in accordance with RGDP and Ley Orgánica 3/2018 will be automatically deleted from our database and consequently not taken into consideration.

- A 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 subject to a 180-day trial (probation) period;
- This position is Full-Time. Her/his main office will be located at the ICT-Core premises in Sevilla, Spain, without prejudice to the establishment of others in the future;
- Start date in office for the **Data Management Specialist: 01 May2024.**

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