

Service Centre Semantic Engineer

Vacancy – Terms of reference

Job description

PURPOSE: The Semantic Engineer position is to investigate about new and pioneering semantic technologies and implement solutions in order to improve the FAIRness by assessing the needs of the scientific community.

This position offers an opportunity to enhance semantic strategies within the LifeWatch ERIC framework, promoting collaborative research and enabling insights into biodiversity and ecosystem dynamics.

JOB TITLE: Service Centre Semantic Engineer

LOCATION: Service Centre premises in Lecce, Italy

POSITION: Full-Time, 12 months

FUNDING RESOURCES: LifeWatch ERIC Strategic Working Plan

Main responsibilities

- They will work under the supervision of and directly report to the Service Centre ICT Coordinator for the management of the LifeWatch ERIC semantics activities;
- They will investigate on new and pioneering semantic technologies, including AI, relevant to guarantee and improve the FAIRness at different infrastructure levels (e.g., platforms, digital resources, etc.);
- They will participate in Working Groups and project meetings to discuss about semantic needs and contribute in general to the semantic strategies aligned with the goals of LifeWatch ERIC;

- They will develop and maintain code and documentation by respecting LifeWatch ERIC rules and standards.;

The ideal candidate should meet the following requirements

- Master's or Ph.D. degree in a relevant field (e.g., computer science, computer engineering);
- Strong knowledge of semantic technologies and best practices applied to manage data and metadata;
- Familiarity with linked open data modelling;
- Familiarity with standardised vocabularies and ontologies;
- Experience with RDF development, OWL ontology development, SHACL shapes development for data validation, development of SPARQL queries;
- Experience with tools like Metaphacts, Blazegraph;
- Knowledge on GraphDB and GraphQL schema development and query language;
- Fluency in written and spoken English. Skills in other European working languages are beneficial;
- Excellent organisation and communication skills, with the ability to collaborate effectively with multidisciplinary teams and engage stakeholders from diverse backgrounds;
- Excellent analytical and problem-solving skills with a keen attention to detail;
- Strong organizational and time management abilities to handle multiple tasks and meet deadlines;
- Be available to travel abroad for the specific working needs of this position..

The vacancy is subject to the following procedure

- A **short covering letter** and **Curriculum Vitae**¹ (**EUROPASS format and annexes, 4 pages at the most**) shall be written in English and addressed to **Lucia Vaira** by **13 December 2024**. Please use the form available at this link: <https://zfrmz.eu/yBvGKNC3ARBRKJxzoYK4>
- 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 **18 December 2024 to 23 December 2024**;
- They will be appointed for a 12-month period. A competitive gross salary, 65.000,00 - 70.000,00 € based on the qualifications and experience of the candidate, will be offered. Employment will be in Italy, and follow the Italian employment law;
- This position is Full-Time. The main office will be located at the Service Centre premises in Lecce, Italy, without prejudice to the establishment of others in the future;
- Start date in office for the **Service Centre Semantic Engineer: 07 January 2025**.

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

¹ 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.