

Remote Sensing, Sensor Networks & Edge Computing Officer

Vacancy – Terms of reference

A. Job description

JOB TITLE: Remote Sensing, Sensor Networks & Edge Computing Officer (RSSNECO).

PURPOSE: The RSSNECO will assist the CTO –ICT-Core Director– in the strategy and day-to-day implementation of the following technologies: (a) Remote Sensing; (b) Sensor Networks; (c) Edge Computing.

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

POSITION: Full-time, 4-year period, yearly renewable.

FUNDING RESOURCES: LifeWatch ERIC ICT-Core in Spain (LW ERIC Strategic Working Plan and ERDF Andalusia Projects).

COMPENSATION: Competitive salary, commensurate to degrees and relevant experience.

B. Main responsibilities

She/he will directly report to the Chief Technology Officer/Director of the ICT-Core, holding a position which requires multi-, inter- and trans-disciplinary ICT skills accrediting proven professional experience on *edge computing* and *sensor networks* techniques: i.e., data electronics systems (from sensor, IoT-RFID, etc., to embedded & microprocessor analogical & digital signal processing & filtering-conditioning systems & automation), communication networks (transmission-receipt, de-coding, securing). In addition, the individual would require a comprehensive knowledge of the associated big and long-tail data management implementation plans at both hardware and software levels, in particular the chapter related to *remote sensing* (satellite, tele-detection) advance technique applications. This also implies experience in the operational maintenance of ICT installations for environmental purposes, including industrialisation and control engineering processes where financial and economic aspects must be also considered.

C. The ideal candidate should meet the following requirements:

1. A university degree in Telecommunications/Electronics Engineering;

2. Minimum ten-year experience in similar position (senior profile);
3. Accredited experience as software analyst, and ICT consultant & project manager;
4. Accredited experience on coordination and technical direction of Research, Development and Innovation engineering initiatives;
5. Accredited experience on telecommunication (in particular, sensor) network design, deployment and maintenance;
6. Accredited experience on environment sensor application programming, and related Data Management Plans from edge to Big Data cycles computing;
7. Proven experience on sensor electronics, robotics and automation systems for environmental applications;
8. Accredited knowledge on industrialisation and control engineering processes;
9. Proven professional experience working for public bodies and government agencies, relevant to scientific/technological/innovation activities related to Biodiversity and Ecosystem Research;
10. Proven professional experience working for private bodies and companies;
11. Good presentation and reporting skills, fluency in written and spoken English (B2), the working language of LifeWatch ERIC, in addition to Spanish (ICT-Core premises hosted in Spain);
12. Experience in preparing reporting on integrated management systems about environmental, quality and risk prevention standards;
13. Knowledge on financial and economic management for ICT projects;
14. Data and organisational analysis skills for reports;
15. Ability to work under tight deadlines with changing priorities, availability to occasionally work beyond office hours and on weekends as required;
16. Availability to travel abroad accompanying the CTO/ICT-Core Director, and other LW ERIC staff;
17. A high-standard work ethic.

ADDITIONAL DESIRABLE SKILLS

- Proven professional experience on relational database management (NoSQL, MySQL, SQLServer, etc.) for scientific purposes;

- Proven professional experience on open source systems, platforms and standards;
- Proven professional experience on Cloud and HPC system environments: Server virtualisations, clustering and cybersecurity aspects;
- Knowledge of ERP systems for economic and financial ICT project management purposes;
- Knowledge of programming languages (C/C++/ C #, Python, Jupiter Notebook, etc.);
- Understanding of structure, functioning and regulation of National and EU e-Infrastructures bodies: Spanish ICTS, ESFRI-ERIC roadmaps, EOSC, Copernicus, etc.

D. The vacancy is subject to the following procedure

- A **short covering letter** and **Curriculum Vitae**¹ (EUROPASS format and annexes, 10 pages at the most) shall be submitted to the Chief Technology Officer/ICT-Core Director cto@lifewatch.eu and in CC to ictoffice@lifewatch.eu, by **17 December 2021**. Please write "RSSNECO Candidature" in the mail subject;
- The selection process will follow the Employment Policy of LW ERIC;
- S/he will be appointed for a 4-year period, yearly renewable. 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 be subjected to a 180-day trial (probation) period;
- This position is a full-time job. 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 individual: **December 2021**.

¹ 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.