

Seville, 25 October 2022

# Intelligent Systems, Robotics, and Unmanned Aerial Vehicles -UAVs- and High-Altitude Platform Systems - HAPs- Assistant

Vacancy – Terms of reference

## A. Job description

**JOB TITLE:** Intelligent Systems, Robotics, and Unmanned Aerial Vehicles -UAVs- and High-Altitude Platform Systems -HAPS- Assistant -ISR\_UAV\_HAP-

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

**POSITION:** Full-time

**FUNDING RESOURCES:** Project INDALO, Ref.: LIFEWATCH-2019-04-AMA-01

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

## B. Main responsibilities

- S/he will work under the supervision of, and always directly report to both the CTO/Head of ICT Core, and/or to the Satellite and HAPs Operations Manager;
- S/he will hold a position that requires trans-disciplinary ICT skills accrediting a wide and proven research skills on intelligent systems, robotics, sensors and UAVs technologies and applications which facilitate Earth Observation activities;
- S/he will provide full support for the start-up, deployment, monitoring and performance assurance of LifeWatch ERIC sensors, and UAV e-Infrastructure components;
- S/he will carry out fundraising activities for new project implementations, and initiatives as well as organisation identifications.

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

- Minimum qualification: University Master's degree in Industrial or Robotic Engineering;
- At least 5 years' working experience in projects/applications involving UAVs, onboard sensors (optical, radar LiDAR, IMU, etc.) and data fusion;
- Knowledge and proven experience in the co-design, deployment and maintenance of sensor networks, both in their hardware as well as software components;
- Knowledge of Simultaneous Location and Mapping (SLAM) techniques and applications;
- Excellent presentation and reporting skills, fluency in written and spoken English (C1), the working language of LifeWatch ERIC under article 1.3 of its Statutes;
- Excellent presentation and reporting skills, fluency in written and spoken Spanish (C1), ICT-Core premises hosted by Spain;
- Knowledge of other European languages, though not a requirement, will be well-considered;
- Ability to work to tight deadlines with changing priorities, availability to occasionally work beyond office hours and on weekends as required;
- Availability to travel abroad accompanying the CTO/Head of ICT-Core, and other ICT Office staff;
- Proven organisation, management and communicative skills;
- High-standard work ethic.

### ASSETS

- Programming skills: C/C++, Python, MATLAB, Github+CI;
- Artificial Intelligence and Machine Learning: TensorFlow, PyTorch, Jupyter;

- Sensors: knowledge of GNSS, cameras, LiDARs, event cameras, IMUs;
- Data Fusion: fusion of data from the above mentioned sensors (or similar);
- Understanding of main of Research Infrastructures, ICT, biodiversity and ecosystem international regulations related issues;
- Other courses and certificates relevant for the job will be also considered.

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

- A **short covering letter** and **Curriculum Vitae**<sup>1</sup> (EUROPASS format and annexes, 5 pages at the most) shall be submitted to the CTO/Head of ICT-Core [cto@lifewatch.eu](mailto:cto@lifewatch.eu) and in cc to [ictoffice@lifewatch.eu](mailto:ictoffice@lifewatch.eu) and [hiring@lifewatch.eu](mailto:hiring@lifewatch.eu) by **11 November 2022**. Please write "**Intelligent Systems, Robotics, and Unmanned Aerial Vehicles -UAVs- and -HAPS-Assistant -ISR\_UAV\_HAP-**" in the email subject;
- The selection process will follow the Employment Policy of LifeWatch ERIC;
- S/he will be appointed for a full-time position. 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 subject to a 180-day trial 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: **November 2022**.

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

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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.