4.4 Job Posting for Researcher at **OZZIE**.

OZZIE robotics

OZZIE Robotics: 7th km Thessalonikis-Neon Moudanion, Pilea, Thessaloniki

Eligible sending organisations

JSI, ULUS

Role title

AI Vision Engineer - Robot Inspection

Environment

OZZIE Robotics is a spin-off company of CERTH, specialized in the development of mobile service robots. OZZIE develops mobile robot platforms, both for indoor and outdoor environments and for diverse application cases. By combining the research background of its founding members from CERTH with practical service robot solutions, OZZIE provides an excellent environment for young researchers to see how research outcomes lead into robot products in practice.

What you will work on

The secondee will:

- Be engaged in the **development of advanced software modules** for the OZZIE robots, particularly contributing to the development of software modules for the implementation of **vision-based inspection processes**.
- Contribute to the **development and training of vision models** that detect and recognise objects, defects and points of interest during inspection missions.
- Help **collect, annotate and prepare image datasets** from the robots' cameras to train and evaluate these models.
- Take part in **evaluating and optimising model performance**, so that models run reliably and in real time on the robots' onboard hardware.
- Participate in **team meetings/stand-ups** and undertake **independent tasks with clear objectives**, with support from the OZZIE team.

What you will gain

- Advanced understanding of **robot vision and object detection methods** and how they can be used for robotic inspection in practice.
- **Hands-on experience** taking vision models from training to **deployment on real robots** in industrial environments.
- Insight into the **safety and reliability requirements** of robots working in critical environments.
- Enhancement of **ROS-based and C++/Python programming** capabilities.
- Where possible, participate in relevant **training/events** within OZZIE's ecosystem.

Desired profile

The position entails the development of software modules in C++ and/or Python programming languages, for ROS-based robots. As such:

- Diploma in Computer Science, Electrical/Computer Engineering or a related field.
- Programming skills in C++/Python.
- Experience in deep-learning based object detection (e.g. YOLO models), from coursework, research or personal projects.
- Familiarity with deep-learning frameworks (e.g. PyTorch) and dataset annotation is a plus.
- Basic understanding of ROS/ROS2.
- Experience with image processing and camera/depth sensors is a plus.
- Comfortable working with Linux and Git.
- Excellent command of English (C2 level).
- Strong organisational, teamwork and communication skills.

Duration & Flexibility

3 months between May and November 2027

Can be split into separate stays of at least 6 weeks each (for example 2 x 6-8 weeks) upon agreement.