

# PhD Opportunity at the Universitat de Girona – Machine Learning for Underwater Robotic Manipulation

The **University of Girona (UdG)** is offering a **PhD position** within the research group [ViCoRob](#) (Computer Vision and Robotics). ViCoRob combines top-level research with technology transfer. Over the past ten years, more than 30 PhD students have graduated from the group.

The successful candidate will join the **Underwater Robotics Research Center (CIRS)**, working on cutting-edge projects to develop **learning-based algorithms for autonomous manipulation**. The challenge: *enabling an autonomous underwater robot equipped with one or two manipulators to perform complex manipulation tasks in real-world scenarios.*

## Requirements

Applicants must have:

- A total of **300 ECTS** (including at least **60 at the master's level**), preferably in computer science, robotics, AI, mechatronics, or related disciplines
- Strong skills in **Python** and **C++**
- Solid background in **machine learning**, including popular libraries such as **PyTorch**
- Fluency in English, both oral and written

Highly valued experience on:

- Robotics (mobile robots and/or manipulators)
- Reinforcement learning and/or imitation learning skills
- Frameworks such as ROS and simulators like MuJoCo or IsaacSim

## Conditions

- **Full-time contract** (37.5 h/week) for **three years**, renewable annually based on performance
- **Salary**: €18,180.48 (1st and 2nd years), €19,479.12 (3rd year), following UdG regulations
- **Workplace**: onsite at the **CIRS facilities** in Girona (Spain)
- Expected **starting date**: January 1, 2026

## Application

Candidates must apply by completing the **application form** ([LINK](#)) and submitting the required documents **by 30/09/2025**. The selection process will also include:

- An **online interview**
- A **knowledge test** covering English, programming, and general knowledge in areas such as machine learning or robotics.

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