

Job Vacancy: Student Research Assistant in the Field of Environmental Robotics

(With experience in ROS and Gazebo)

Feb. 2025

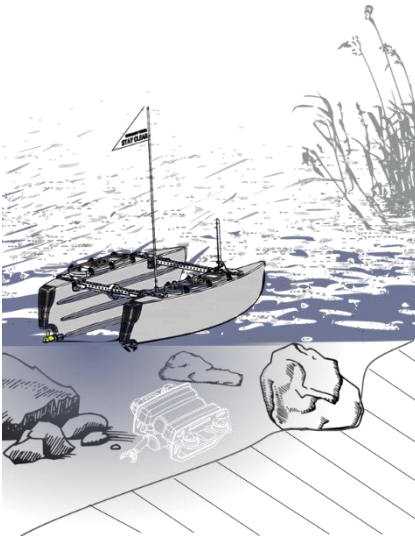


Figure 1: Representation of an USV on the surface of a lake

Background:

The Environmental Robotics Group at MIRMI aims to connect students across disciplines to enable collaborative work on real-world problems in climate and environmental protection during their studies. Environmental robotics is an ideal field from current research, symbolizing the collaboration between environmental and robotics experts. Through the development of a course with a project-oriented approach, students will gain hands-on experience in the real-world application of surface robots (USVs).

Job Responsibilities:

- Support in planning and implementing the course
- Setting up a maritime simulation environment in Gazebo
- Implementing a model of an USV
- Developing ROS nodes for controlling the position of the USV
- Implementing path planning algorithms

(Preliminary work is already available)

Work Location:

By arrangement – at Carl-Zeiss-Straße 8 in Garching / partly home office is possible

Work Scope:

By arrangement – 20 hours per month, initially limited to three months

Start date:

Soon (by arrangement)

Contact:

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