

# OPEN POSITION: A PhD/Teaching assistant position in marine robotics

**ABOUT LABUST** The LABUST origins can be traced back to late 1960s when the research group was formed at the University of Zagreb Faculty of Electrical Engineering (UNIZG-FER) and at the association of shipbuilding industry „Jadranbrod“ in Zagreb. In the 1970s and 1980s cooperation with the Brodarski Institute in Zagreb, Shipyard „Uljanik“ in Pula, and Central Research Institute of Marine Fleet in Leningrad was intense. Main topics of R&D at that time were navigation, guidance, and control (NGC) of ships and submarines. In 1990s our focus diversified toward unmanned marine vehicles. In that time we operated as a research group at UNIZG-FER, to be finally established as research laboratory LABUST in December 2011, when the legislation at the UNIZG-FER allowed founding of research laboratories. The research staff changed over the years to reach the number of 10 researchers in 2016. LABUST is at present the only research laboratory with R&D and innovation capabilities for underwater systems and technologies on the east coast of the Adriatic Sea! We are proud to be able to maintain expertise in this domain in Croatia, against all odds.

**OUR MISSION** Laboratory serves as the focal point for applied research and development activities in unmanned marine systems and technology for end-users. We exist to create new knowledge, educate students, provide advice for end-users, innovate, and implement solutions for our customers. We contribute to innovation in the sustainable exploitation of ocean resources. LABUST sets itself apart from others in its values and mission to inspire and seek challenging tasks.

**OUR VISION** Our vision is to advance in multidisciplinary engineering research that innovates, applies, and teaches world-class attainment in autonomous marine systems, sensor processing, and underwater acoustics for marine science, maritime archaeology, maritime security, the offshore energy sector, and other applications.

## **SUPERVISOR**

Prof. Nikola Miskovic ([Nikola.miskovic@fer.hr](mailto:Nikola.miskovic@fer.hr))

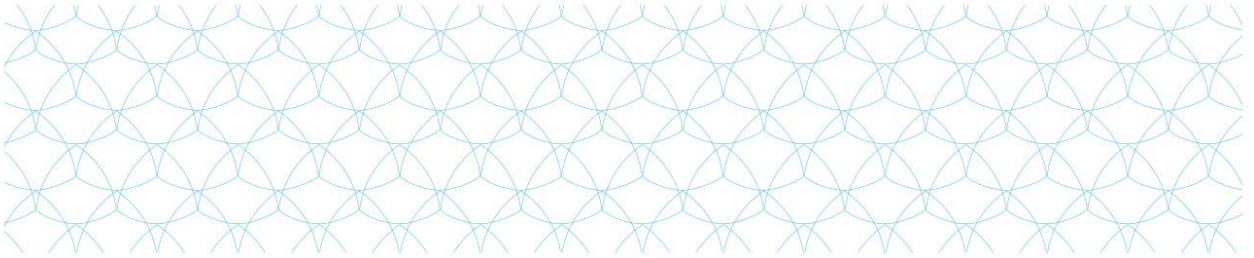
Website: <http://www.fer.unizg.hr/zari/labust/people/nmiskovic>

## **LOCATION**

Laboratory for Underwater Systems and Technologies (<http://labust.fer.hr/>)

University of Zagreb, Faculty of Electrical Engineering and Computing (<http://www.fer.unizg.hr/>)

Zagreb, Croatia



## DESCRIPTION

The successful candidate will work on topics from the field of marine robotics. The participant is expected to carry out research and publish results in conferences and journals, participate in the preparation of proposals for research funding and in the writing of project reports, participate in teaching and mentoring graduate students.

## QUALIFICATIONS

- Finished or close to finishing MSc in a field related to signal processing, robotics and/or AI.
- Programming skills including experiences using C++, Python, and/or MATLAB
- Ability to present work clearly both written and orally
- Desirable but not crucial qualifications:
  - o Experience with ROS
  - o past recognitions, awards, etc. for excellence in studies and research work
  - o participation in scientific research work, published papers, personal contributions at scientific conferences

## SKILLS

Candidates will have the following skills

- Flexibility and ability to work in a fast-paced environment
- Ability to deal with multiple priorities and projects
- Ability to work with students
- Strength to cope with schedules and deadlines
- Ability to work in distributed international teams
- Excellent organizational and communication skills
- A proactive approach, with initiative and ability to work independently
- Excellent written and spoken English.

## JOB DETAILS

Type of contract: full time, 40h working week

Number of positions: 1 (one)

Contract duration: 6 years

Expected start date: July 2023

## APPLICATION DETAILS

Send your CV and motivation letter to [nikola.miskovic@fer.hr](mailto:nikola.miskovic@fer.hr). Shortlisted candidates will be contacted shortly after applying for an interview.

**Deadline for applications: June 1<sup>st</sup> 2023**