

Point cloud and sensor fusion for Simultaneous Location
and Mapping on wearable devices
University de São Paulo

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Posted Nov. 25, 2024, set to expire Mar. 27, 2025

Job Title	Point cloud and sensor fusion for Simultaneous Location and Mapping on wearable devices
Department	Naval Engineering / Polytechnic School
Institution	University de São Paulo São Paulo, São Paulo, Brazil
Date Posted	Nov. 25, 2024
Application Deadline	Dec. 20, 2024
Position Start Date	January 2025
Job Categories	Post-Doc
Academic Field(s)	Robotics Naval Architecture & Marine Engineering Computer Engineering
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Job Description

Augmented Reality support to manual interventions in FPSO infrastructure means accurate superimposing in the field of view of the operator auxiliary imagery properly aligned to existing equipment while compensating for head motion.

The objective is to develop a wearable helmet with sensors able to track its position in 6dof with latency, throughput and accuracy suitable for AR support.

This project presumes that the environment won't receive specific modifications to support this operation and communications between the helmet and external systems are unreliable.

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As such, this project aims to track the helmet position by making use of sensors embedded on it, such as video cameras and inertial sensors.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact OTIC Jobs
Naval Engineering / Polytechnic School
University De São Paulo
São Paulo, São Paulo
Brazil

Phone Number +55 11 3091701

Contact E-mail otic.jobs@usp.br