

Announcement of an international call for Technician

Reference: 2026_072_TS_REMORA

A competition is open for the attribution of one employment contract for a Technician as part of the project REMORA, with reference COMPETE2030-FEDER-01429400, financed by the EU and Portugal 2030 through the program COMPETE under the following terms and conditions:

1. Scientific Area: Computer engineering, physics engineering, robotics, applied mathematics or related field.

2. Admission requirements:

- Bachelor in a relevant scientific area.
- Experience in mathematical modelling and in the computational implementation of physical models in a simulation environment.
- Experience in simulation programming.
- Knowledge of applied physics and simulation of phenomena like fluid-body interaction and external disturbances, and representation of environmental variables.

3. Admission preferential criteria:

- Experience in Unity, C# or other physical simulation environments that allow a rapid adaptation to Unity.
- Experience in the simulation of aquatic environments.
- Experience in modelling of environmental variables.
- Experience in Digital Twins.

4. Work plan:

The REMORA project – Swarm Robotics for Aquatic Resource Enhancement and Observation – aims to transform the monitoring and management of aquatic ecosystems through a cyber-physical architecture that integrates swarm robotics, digital twins (DTs), and human-swarm interaction into a single operational cycle. This innovative solution will be demonstrated in two aquatic systems: a marina and a fish farm. The contracted researcher will develop the DTs (which are partly similar) for two aquatic systems. The DTs will be developed, based on an existing robotic simulator in Unity, for aquatic monitoring scenarios, with greater emphasis on environmental and visual sensors relevant to applications in marinas and aquaculture. The DTs must be able to

ingest and process multi-sensory observations, represent the macroscopic state of the system, and support predictive analysis and scenario exploration.

5. Legislation and official rules:

Article 140, n. 2, g)) and Article 148, n. 4, of the Labor Code (Law 7/2009, of 12 February and respective updates).

6. Work place:

The selected candidate will be integrated into the LOAI research group and work at CIIMAR - Interdisciplinary Centre of Marine and Environmental Research, at Terminal de Cruzeiros do Porto de Leixões, Avenida Norton de Matos, s/n, 4450-208 Matosinhos, Portugal.

7. Duration of the contract:

An unfixed-term employment contract scheduled to September 2026, under the legal terms in force (Labor Code).

8. Monthly Salary:

The gross monthly salary is 1 762,31 € (level 21), with Holidays and Christmas, as well as food allowance paid additionally.

9. Selection methods:

The most important criterion is adequate experience. Candidates will be evaluated and ranked based on their CV and motivation, using the following criteria:

A - Assessment of mandatory and preferential requirements for admission and experience in the desired area;

B - Evaluation of the candidate's motivation to carry out the workplan based on the motivation letter.

With evaluation = $0.8 \times A + 0.20 \times B$

If considered necessary, an interview will be carried out with the best-scoring 2- 3 candidates, which will have a maximum weight of 30% in the final evaluation:

$0.7 \times \text{CV and Motivation (A+B)} + 0.3 \times \text{Interview}$

10. Composition of the jury:

President of the jury: Dr. Ana Bio (CIIMAR)

Vogal: Dr. Isabel Iglesias (CIIMAR)

Vogal: Dr. Rodrigo Ozório (CIIMAR)

11. Form of advertising/notification of the results:

The results of the first step of the evaluation (pre-selection) will be sent to the candidates by e-mail. The candidates have a 10-working day term in which to contest the decision, if they so wish, as provided for in the Administrative Procedure Code, in a preliminary hearing setting. After the eventual collection of reference letters and interviews, the final results will be communicated by e-mail to the candidates. The jury reserves the right not to assign the work contract if none of the candidates meet all the requirements and match the desired profile.

12. Deadline for application and how to apply:

Candidates interested in this position should send their application from 20 until 31/7/2026, to rh@ciimar.up.pt. Applications cannot exceed 20 MB and the subject of the e-mail must contain the competition 2026_072_TS_REMORA.

The applications must be formalized by sending the following documents:

- application letter (include: application reference, contact e-mail address and phone number);
- motivation letter;
- detailed Curriculum vitae;
- copy of the eligibility certificates;
- any other documents considered relevant.

13. Non-discrimination and equal access policy:

CIIMAR actively promotes a non-discrimination and equal access policy, wherefore no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever, or be exempt of any duties based on their ancestry, age, sex, sexual preference, marital status, family and economic conditions, instruction, origin or social conditions, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, origin territory, language, religion, political or ideological convictions and union membership.

Pursuant to Decree-Law no. 29/2001 of 3 February, disabled candidates shall be preferred in a situation of equal classification, and said preference supersedes any legal preferences. Candidates must declare, on their honour, their respective disability degree, type of disability and communication/expression means to be used during selection period on their application form, under the regulations above.

The selection process creates no obligation and may conclude without any candidates being selected if none are suitable for the position.