

Reference: **BII/CESAM/SHORESAFETY/2025**

NOTICE FOR THE AWARD OF GRANTS IN THE SCOPE OF R&D PROJECTS AND INSTITUTIONS

A tender is hereby opened for the award of *one* **Starting Research Grant(s)** (SRG) in the scope of R&D project SHORESAFETY – Emerging remote sensing technologies in real-time support for beach safety in risk areas of the Centre for Environmental and Marine Studies (CESAM), with refª 2023.13467.PEX, under the following conditions:

1. Scientific Area: Computer engineering, computer science and related fields.

2. Funding Source: Foundation for Science and Technology, I.P./MCTES, through national funds (PIDDAC).

3. Admission Requirements: Students enrolled in a bachelor's degree, with the aim of obtaining initial scientific training integrated into research projects, with experience in using Matlab and Python for image processing being recommended.

The proof of enrolment must be made available until the contract is awarded, and the candidate may attach a declaration of honor to confirm that they meet the requirements for enrolment in a higher professional technician course, undergraduate degree, integrated master's degree or master's or in a course that does not confer an academic degree.

If the qualification has been conferred by a foreign higher education institution it must be **recognized by a Portuguese higher education institution**, under the terms of the provisions of article 25 of Decree-Law no. 66/2018, of August 16th, which approves the legal regime of recognition of academic degrees and diplomas of Higher Education, attributed by foreign higher education institutions, and of paragraph e) of no. 2 of article 4 of Decree-Law no. 60/2018, of August 3rd, and any formalities established therein must be fulfilled by the date of the hiring act.

4. Eligibility: Applicants are eligible if they comply with paragraph a) of no.1 of article 2, of the Research Fellow Statute as amended by Decree-Law no. 123/2019, of August 28th, as well as nos. 1 and 2 of article 5 of the Research Grant Regulations of the Foundation for Science and Technology. (The SRG(s) cannot be awarded to those who have already benefited from research grants directly or indirectly funded by FCT, awarded under the terms of the Research Fellow Statute and of no. 5 of article 5 of the aforementioned Regulation.

5. Work plan: The scholarship holder will work on the SHORESAFETY project, on the following tasks:

- a) Explore the use of data acquired by video monitoring cameras to extract local hydrodynamic parameters (wavelength, wave period, wave speed, wave direction and wave height), continuing the work previously developed by the research team.
- b) Optimize algorithms previously developed by the research team for bathymetric estimation based on local hydrodynamic parameters obtained by a coastal video monitoring camera installed at Praia de Mira.
- c) Contribute to the validation of results obtained with data acquired in situ.

6. Applicable legislation and regulations: Statute of Scientific Research Grant Holder, as amended by Decree-Law no. 123/2019, of August 28th; Regulation no. 950/2019, of November 29th, published in Diário da República, no. 241, Series II, of December 16th (FCT, I.P. Research Grants Regulation); Decree-Law no. 66/2018, of August 16th (Legal regime for recognition of academic degrees and diplomas of higher education awarded by foreign higher education institutions).

7. Workplace: The work will be carried out at the Centre for Environmental and Marine Studies/Department of Geosciences of the University of Aveiro, under the scientific supervision of Doctor Paulo Renato Enes Baganha Baptista, Professor Doctor Paulo Alves da Silva and Professor Doctor Tiago André Abreu.

8. Duration of the grant: The grant duration will be 6 months, starting in July 2025, and may be renewed for equal periods until the end of the funding period, but may in no case last more than one year, according to the terms of nos. 3 and 4 of article 5 of Regulation no. 950/2019, of November 29th, published in Diário da República, no. 241, Series II, of December 16th (FCT, I.P. Research Grants Regulation).

9. Amount of monthly maintenance allowance: The amount of the grant corresponds to €651.12, according to the table of monthly maintenance allowance amounts set out in Annex I of Regulation no. 950/2019, subject to any updates that may be applicable, under the terms of no. 2 of article 18 of Regulation no. 950/2019, of November 29th, published in Diário da República, no. 241, Series II, of December 16th (Research Grants Regulation of FCT, I.P.). The fellow may also be reimbursed for the amount corresponding to the Voluntary Social Security, in case of adherence to this plan.

10. Selection methods: The selection methods to be used will be the following:

The selection methods to be used will be curriculum evaluation, with the option of an evaluation interview if the jury does not consider itself duly qualified to make a decision based on the curriculum evaluation. The curriculum evaluation, with a weighting of 0-20 points, will be carried out according to the following criteria and weightings:

- Curriculum evaluation - 50%
- Knowledge of the use of Matlab and/or Python - 30%
- Experience in developing image processing routines - 10%

The interview selection method may be used if the jury does not consider itself duly qualified to make a decision based on the curriculum evaluation. If an interview is carried out, the final evaluation will be carried out with a weighting of 80% for the curriculum evaluation and 20% for the interview.

11. Composition of the Selection Jury: President: Professor Amadeu Mortágua Velho da Maia Soares, Director of CESAM; Full members: Doctor Paulo Renato Enes Baganha Baptista, Assistant Researcher at the University of Aveiro and Professor Paulo Alves da Silva, Associate Professor at the Department of Physics of the University of Aveiro. Alternate members: Professor Tiago André Abreu, Adjunct Professor at the Porto Higher Institute of Engineering and Professor Cristina Maria Almeida Bernardes, Associate Professor at the Department of Geosciences of the University of Aveiro.

12. Deadline for applications and how to submit applications: The call is open from 21 March to 7 April 2025, and only applications submitted within the deadline will be admitted.

Applications must be formalized by sending a letter of application accompanied by the following documents: Curriculum Vitae, certificate of qualifications, declaration of honour and other supporting documents considered relevant. They shall also indicate the e-mail address to which by such indication they accept to be notified for all purposes within this procedure.

Applications should be sent by e-mail to cesam-bolsas@ua.pt

13. Form of publication/notification of results: The final results of the evaluation will be published through an ordered list alphabetically, by final mark obtained or other posted on the University's website, within 90 working days after the final date of submission of the application, and the successful candidate will be notified by email. For the purposes of prior hearing of interested parties, the deadline of 10 working days is set, as provided for in the Code of Administrative Procedure. At the end of the period for hearing the interested parties, and in the absence of any response from them, the list of candidates will become final. Candidates may lodge a complaint against the final decision within 15 working days, or appeal to the maximum executive body of the funding entity within 30 working days after notification of the final decision, in accordance with the provisions of article 12 of the Research Grants Regulation of the Foundation for Science and Technology.

14. Tender duration: The final ranking list of candidates will be valid until 30 July 2025 for the purpose of constituting a reserve list for selection.

The models of the grant contract and of the final report to be prepared by the grant holder and the supervisor are available at [Research fellows - sgrh - Universidade de Aveiro \(ua.pt\)](https://ua.pt/research-fellows-sgrh).

University of Aveiro, 20 March 2025