

RESEARCH GRANT (BI) (1 vacancy)

Reference: 2024_063_BI_MIWAVES

A competition is open for the attribution of 1 Research Grant in the framework of the project MIWAVES (Modelling Internal solitary WAVES off the Portuguese coast), within the R&D Institution CIIMAR (Interdisciplinary Centre of Marine and Environmental Research), with the reference PTDC/2022.01215.PTDC, supported by the Fundação para a Ciência, according to the following conditions:

1. Scientific area: Physical Oceanography

2. Admission requirements:

We seek a master's student presently enrolled in a master's Program, preferably in Physical Oceanography, Computer, Physical or Biological Sciences, or similar.

The candidate will aim to write a Master's Thesis in a subject relating to Internal Solitary Waves in the ocean and some of their dynamics investigated via satellite remote sensing and numerical models.

The candidate can also have already a Master's degree and be enrolled in a non-degree course integrated in the educational project of a higher education institution, developed in association or cooperation with one or several R&D units. If the applicant is not yet enrolled, she/he must meet the requirements to register; enrolment will be mandatory and proof necessary only at the moment of scholarship contracting.

Note: In the case of enrolment in courses that do not confer academic degree, the research grant can only be awarded to those who do not exceed, with the signing of the research grant contract in question, including possible renewals, an accumulated period of two years in this type of grant, consecutive or interpolated.

Academic degrees awarded by a foreign higher education institution must comply with the provisions of Decree-Law no. 66/2018 of 16th August, which approves the legal regime of recognition of academic degrees and diplomas of Higher Education, attributed by foreign higher education institutions, being any formalities established therein fulfilled only by the date of the contracting act.

Therefore, good skills in geophysical fluid dynamics, mathematics and physical oceanography are expected.

In addition, a demonstrated capacity to perform independent research and to adapted to new methodologies and techniques will be key aspects for selection of a suitable candidate.

3. Work plan:

A working plan is anticipated for a period of approximately 5 months which is summarized as follows:

- i.** Learn how to run access, download, and process and analyse data from the recently launched mission SWOT (Surface Water and Ocean Topography, <https://swot.jpl.nasa.gov/>). Expected extent: 1 month to be done at IPMA Algés and FCUP Porto.
- ii.** Compare SWOT data concerning sea surface elevations from Internal Solitary Waves with simulations the Massachusetts Institute of Technology General Circulation Model (MITgcm) in already well-established configurations. Expected extent: 1 month to be done at IPMA Algés and FCUP Porto).
- iii.** Assist in the preparation of a research article documenting new findings from previous points (expected extent: 2 to 3 months to be done at IPMA Algés and FCUP Porto).

4. Legislation and official rules:

Law nº. 40/2004, 18th August (Research Fellowship and Studentship Regulation); Regulations for Studentships and Fellowships of the Fundação para a Ciência e a Tecnologia, I.P. and CIIMAR Grants Regulation.

5. Work place:

The work will be carried out at CIIMAR (Porto, Portugal), FCUP (Porto, Portugal) and IPMA (Algés, Portugal), under the scientific supervision of Profs. Jorge Manuel Reis Magalhaes and José Carlos Pinto Bastos Teixeira da Silva.

6. Duration of the grant:

Duration of 5 months, starting October 2024, under the regime of exclusive dedication, eventually renewable according to legal terms, up to the end of the project.

7. Monthly maintenance stipend:

The monthly maintenance allowance is €990,98, in country, in agreement with the monthly maintenance stipend table of the grants directly attributed by FCT, I.P. (https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf).

8. Selection methods:

The ranking of candidates will be performed by a global evaluation based on:

Evaluation of the Curriculum Vitae -60%;

Interview – 40%;

(Only a short list of the top 3 candidates will be interviewed).

9. Composition of the jury selection:

President of the jury: Prof. Jorge Manuel Reis Magalhães (CIIMAR)

Vogal: Prof. José Carlos Pinto Bastos Teixeira da Silva (FCUP)

Vogal: PhD. Paulo B. Oliveira (IPMA, Algés)

10. Form of Advertising/notification of results:

The final results of the evaluation will be published through a list sorting the candidates according to their attributed mark, on the CIIMAR website and by e-mail; in case of disagreement, the candidates have a 10-working day term in which to contest the decision, if he/she so wishes, as provided for in the Código do Procedimento Administrativo in a preliminary hearing setting. The jury reserves the right to not assign the grant depending on the quality of the applications.

11. Deadline for application and presentation of applications:

The competition is open from **24 september until 7 october 2024**. The applications must be formalized, compulsorily, by sending the following documents:

- detailed Curriculum vitae
- copy of the eligibility certificates
- motivation letter
- reference contact information of current and past supervisors
- contact e-mail address and phone number
- indication of the reference of the competition (as indicated in this announcement)

- The applications must be sent by e-mail to: rh@ciimar.up.pt , with the reference “2024_063_BI_MIWAVES” in the subject line. The applications that do not include all the elements previously indicated will not be considered.

12. 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.