

ANNOUNCEMENT FOR THE OPENING OF A SELECTION OF A RESEARCH GRANT– (BI) 1 VACANCY

Reference: 2024-034 BI MAPS

A competition is open for the attribution of 1 research Grant in the framework of the project MAPS – “Measurements and modeling of the atmospheric and oceanic boundary layers at the northern Antarctic Peninsula during the Year of Polar Prediction Special observing periods”, reference 2022.09201.PTDC, supported by Portuguese Foundation for the Science and Technology (FCT), according to the following conditions:

1. Scientific area: Meteorology and Climate, Atmospheric physics

2. Admission requirements: Any national, foreign or stateless candidate(s) who hold a Bachelor degree in Meteorology, climate studies, atmospheric physics or related fields, and able to be enrolled in a master program at the time of application, with the aim of consolidating his/her scientific training through the development of research work leading to the award of the respective MSc degree or 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.

The candidate must have:

- i) Solid background in meteorology/climate/atmospheric physics;
- ii) Knowledge of programming languages for data analysis and visualization (Python, MATLAB, R or other);
- iii) Proficiency in English;

Preferred conditions are previous experience in: atmospheric data analysis and/or numerical modeling.

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.

The jury reserves the right to close the contest if none of the candidates match the desired profile.

3. Work plan: The candidate will use measurements conducted during the special observing periods in the framework of the Year of Polar Prediction in the Southern Hemisphere (YOPP-SH) and during

summer campaigns. During YOPP-SH enhanced radiosonde observations were launched from a number of stations around Antarctica with several dedicated bases at the Antarctic Peninsula region. Analysis will focus on observations conducted on King George Island and will exchange data and knowledge regarding cloud and precipitation observations at the Akademik Vernadsky station in the western Antarctic Peninsula. The student will analyze thermodynamic structure of the troposphere using radiosondes and cloud liquid water sensors, along with synoptic-scale atmospheric circulation patterns. In addition to the observational data, the analysis will be based on ERA5 reanalysis and Polar-WRF model outputs, including running the Polar-WRF model for specific events.

4. Legislation and official rules: Law nº.40/2004, 18th August (Research Fellowship Holder Statute) in its current version; 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 within the project at CIIMAR: Land-Ocean-Atmosphere Interactions research team, Edifício do Terminal de Cruzeiros do Porto de Leixões, Av. General Norton de Matos, s/n, 4450-208 Matosinhos, under the scientific supervision of Dra Irina Gorodetskaya and Dr Claudio Durán-Alarcón.

6. Duration of the contract: Duration of four (4) months, starting in April 2024, under the regime of exclusive dedication, renewable up to legal terms and the projects duration.

7. Monthly salary: The monthly maintenance allowance is 990,98 €, in agreement with the monthly maintenance stipend table of the grants directly attributed by FCT, I.P. within the country (https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf), by bank transfer payment.

8. Selection methods: The ranking of candidates will be performed by an initial evaluation based on:

A- Academic performance (Suitability of the degree and candidate's performance) – 40%;

B- Experience and qualifications relevant to the proposed research area (Curricular units related to the topic of the proposal as well as experience in programming and/or numerical modeling) – 40%;

C- Motivation letter – 20%.

The assessment process may include an interview for the top three candidates if they are separated by less than 10% according to the jury criteria. The interview will have a weight of 20% and the evaluation carried out previously will have a weight of 80%.

9. Composition of the jury selection:

President of the jury: Dra. Irina Gorodetskaya

Vogal: Dr. Claudio Durán-Alarcón

Vogal: Dra. Isabel Iglesias

10. Form of advertising/notification of results: The final results of the evaluation will be send through a list sorting the candidates according to their attributed mark, by e-mail and available in

CIIMAR website; 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 contract depending on the quality of the applications.

11. Deadline for application and presentation of applications: The competition is open from **12/4/2024 until 26/04/2024**. The applications must be formalized, compulsorily, by sending the following documents:

- detailed Curriculum vitae;
- copy of the Bachelor degree certificates (including curricular information and grades);
- copy of the eligibility certificates, if applicable;
- evidence of enrollment in a master/integrated master program or non academic degree course, if applicable;
- motivation letter;
- contact e-mail address and phone number.

Applications must be sent by email to rh@ciimar.up.pt with a copy to irinag@ciimar.up.pt (MAPS project PI), with the offer reference in the subject: **2024-034 BI MAPS**. 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 policy of non-discrimination and equal access, by which no candidate can be privileged, can benefit or be put in disadvantage, or can be deprived of any rights or duties based on their social or cultural background, ethnic group or race, age, sex, sexual orientation, marital status, family status, economic status, education, social condition, genetic assets, reduced work capacity, disability, chronic disease, nationality, territory of origin, language, religion, political or ideological beliefs and unionization.

As set forth by the Decree Law 29/2001, the candidate with disability has preference if equally classified, which prevails over any other legal preference. The candidates with disability must declare in their application, on their word of honor, their degree and type of disability, and the means of communication/expression that are to be used in the selection process, as provided by the above mentioned legal diploma.