

**Reference:** Public notice BI/CESAM/ATLACE/2024

## 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 **Research Grant** (RG) in the scope of R&D project ATLACE - Atlantic interactions via atmospheric water cycle: exploiting a unique dataset from the Antarctic circumnavigation expedition for better understanding of clouds and precipitation, CIRCNA/CAC/0273/2019, under the following conditions:

- 1. Scientific Area:** Earth and Environmental Sciences / Meteorology and Atmospheric Sciences
- 2. Funding Source:** Foundation for Science and Technology, I.P./MCTES, through national funds (PIDDAC)
- 3. Admission Requirements:** Students enrolled in Master in Computational Engineering.

Preferential factors: interest in atmospheric modeling, particularly in aerosol-cloud-precipitation interactions.

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 master's 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 6 of the Research Grant Regulations of the Foundation for Science and Technology. The RG(s) awarded to undergraduate or master students enrolled in courses that do not confer academic degree may only be granted to those who do not exceed, upon conclusion of the grant contract in question, including possible renewals, an accumulated period of two years in that type of grant, consecutive or interpolated, under the terms of no.5 of article 6 of the aforementioned Regulations.

**5. Work plan:** The grant aims to support the activities of the ATLACE project, which aims to contribute to a better understanding of aerosol-cloud-precipitation interactions associated with extratropical cyclones and their most extreme manifestations - atmospheric rivers. In particular, the candidate will:

- Apply a mesoscale atmospheric model with online coupling between chemistry and meteorology (CHIMERE v2023), studying cloud and precipitation formation and their dependence on the presence, quantity, and characteristics of atmospheric aerosols that can act as cloud condensation nuclei (CCN) and ice nuclei (IN);
- Assess the concentration of aerosols in the atmosphere, and their chemical composition, during episodes classified as "atmospheric rivers" that have affected the Iberian Peninsula and/or Antarctica;
- Contribute to the dissemination of project results through the preparation of publications and databases to be submitted to international journals and data repositories.

**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 CESAM / Department of Environment and Planning of the University of Aveiro, under the scientific supervision of Doctor Carla Gama.

**8. Duration of the grant(s):** The grant duration will be 3 months, starting in May of 2024, and may be renewed until the end of the funding period. Under no circumstances shall it exceed the limits defined in nos. 3 and 4 of article 6, 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.).

**9. Amount of monthly maintenance allowance:** The amount of the grant corresponds to €990.98, 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.).

**10. Selection methods:** The evaluation of applications will focus on the Merit of the candidate (MC), applying the items mentioned below with the respective valuation indicated in parentheses:

- Academic background (academic qualification) and motivation to study aerosol-cloud-precipitation interactions (30%);
- Experience with programming languages used in the atmospheric modelling area (Fortran, C or C++) (35%);
- Experience with programming tools for data analysis (Python, MATLAB, or R) (35%).

The jury may choose to conduct interviews, if there are several candidates with a final MC score equal to or greater than 16 points (on a scale of 0-20 points). In this case, MC will have a weighting of 60%, and candidates who obtain a minimum score of 16 points in MC will be admitted to the Interview phase.

The final rating (FR) of the Candidate's Merit (MC) and Interview (INT) will be obtained by applying the following formula:  $FR = (MC \times 0.6) + (INT \times 0.4)$ .

In the event that none of the candidates meet the profile suitable for carrying out the work plan, the Jury reserves the right not to award the grant, closing the competition without any recruitment.

**11. Composition of the Selection Jury:** The selection jury will be composed of Dr. Carla Maria dos Santos Gama da Silva, Junior Researcher (Jury President), Dr. Maria Alexandra Castelo Sobral Monteiro, Assistant Researcher with Habilitation, and Dr. Ana Isabel Couto Neto da Silva Miranda, Full Professor (Permanent Members); Dr. Diogo José Sousa Lopes, Doctoral Researcher (Level 1), and Dr. Vera Augusta Moreira Rodrigues, Doctoral Researcher (Level 1) (Alternate Members), all from the University of Aveiro.

**12. Deadline for applications and how to submit applications:** The call is open from April 2 to 15, 2024, and only applications submitted within the deadline will be admitted.

Applications must be formalized by sending a letter of application, which form is available on the [website of the Human Resources Management Services](#), accompanied by the following documents: Letter of motivation, Curriculum Vitae, certificate of qualifications and document proving the grade history, proof of enrollment in a master's program or declaration of commitment of honor, and other 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 [carlagama@ua.pt](mailto:carlagama@ua.pt) (the subject of the message should include the reference of this Call).

**13. Form of publication/notification of results:** The final results of the evaluation will be published through a ranked list by final grade 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 July 31, 2024, 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 March 27, 2024

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(Carla Gama)