

CALL FOR AWARDING RESEARCH FELLOWSHIPS WITHIN PROJECT GRANTS AND R&D INSTITUTIONS

1 (one) Research Fellowship (BI) for a PhD Student

1 Research Fellowship(s) (BI) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project “Compound extremes in Mediterranean temperature, wind and wildfires”, financed by Own funding for the development of R&D projects, under the following conditions:

1. **Scientific Area:** Earth Sciences
2. **Requirements for admission:** Bachelor's degree in Statistics, Mathematics, Environmental Engineering, Oceanography and Geophysics or similar areas, and Master's degree in Statistics, Environmental Engineering or similar areas.
3. **Additional optional skills and qualifications:** Programming experience in R/RStudio, Matlab, Mathematica or Python. Experience with modelling data using copulas will be relevant. A published paper in this area will be highly appreciated.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in PhD programme.
5. **Work plan:** The Mediterranean region is prone to frequent extreme events, like droughts and heatwaves that increase the risk of wildfires. When occurring concurrently or sequentially, such extreme events may amplify the associated impacts. Several recent wildfires were characterized by concurrent extreme high temperatures and strong winds, namely the events of October 2017 in Portugal where fires concurred with the winds associated to the passage of the Ophelia storm. One of the interactions which is still a challenge is the joint occurrence of heatwaves, intense windspeed and fires. The complexity of these interactions requires sophisticated methodologies such as copula models. The purpose of this work is to use vine copula models for describing the joint association between temperature, wind speed and the energy released by wildfires (Fire Radiative Energy), as obtained from the Fire Radiative Power retrieved from satellites. Interest focuses on analyzing the joint behavior of these three variables. This study also aims to compare the behavior of Portugal with some of the countries of the Mediterranean basin in what concerns the three variables mentioned above. A publication in an international journal of the area are the expected outputs.
6. **Legislation framework:** Research Fellowship Holder Statute, in accordance with Law 40/2004, of 18 August, in its current version and the FCT Regulation for Research Studentships and Fellowships, in its current version (Reg. 950/2019 published in DR on 16th December: <https://dre.pt/application/file/a/127230968>, or at the FCT website: <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>), and FCiências.ID Fellowship Regulation, as approved on 12th May 2020 (available at <Regulamento de Bolsas de Investigação Científica da FCiências.ID>).
7. **Place of work:** The work will be developed at the Centro de Estatística e Aplicações da Universidade de Lisboa and Instituto Dom Luiz, Faculty of Sciences of the University of Lisbon under the scientific supervision of Professor(s) Patrícia de Zea Bermudez (supervisor) and Célia Gouveia (co-supervisor).
8. **Fellowship duration:** This position is initially opened for 6 months months due to start in March 2024. The fellowship contract may be potentially renewed for 3 months.

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9. **Monthly allowance:** The fellowship amounts to € 1199,64, according to [table values](#) of the FCIências.ID Fellowship Regulation. The fellowship holder will have a personal accident insurance and can ensure the right to social security through adherence to the voluntary social insurance scheme, if not covered by any other social protection scheme, pursuant to *Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social*. The fellowship will be paid monthly by bank transfer.

10. **Evaluation and selection process:** Candidates will be assessed by CV (100%) Applicants whose application is scored with a final classification of less than 80 points are not eligible for granting a fellowship.

11. **Selection Committee:** President: Professor Patrícia de Zea Bermudez (FCUL); Effective members: Professor Carlos da Câmara (FCUL), and Professor Célia Gouveia (FCUL and IPMA); Alternate members: Professor Ana Nunes (FCUL) and Professor Lisete de Sousa (FCUL).

12. **Publication/notification of results:** All the candidates will be notified by e-mail, sent by the call holder, with the selection meeting minutes enclosed.

13. **Deadlines:** This call for applications is open from 07/02/2024 to 16/02/2024 .

14. **Application:** Applications should be sent via e-mail to pcbermudez@fc.ul.pt, by attaching the following documents:

- a. Curriculum vitae;
- b. Certificate of completion of previous degree ^{Note 1, 2}.

15. **Processing of personal data:** FCIências.ID – Associação para a Investigação e Desenvolvimento de Ciências, as the controller under the General Data Protection Regulation, collects and processes the personal data requested in the context indicated in paragraph 14., under the legitimate interests in ensuring the award of the research fellowship to candidates with the indicated profile.

The personal data will be kept for the period necessary for the execution of the purposes for which they are intended, being ensured the processing and protection in an appropriate and diligent way, the confidentiality and integrity of these data, through appropriate technical and organizational measures.

Personal data may be transmitted to third parties, namely the entity funding the research project, solely for the purposes specifically established. In this sense, whenever the transfer of personal data to countries outside the European Union and/or international organizations is necessary, compliance with the applicable legal provisions is ensured.

You have the right to request access, rectification, elimination, limitation of processing, the right to object and also data portability (if technically feasible), through the e-mail address: dpo@fciencias-id.pt. You also have the right to lodge a complaint with the National Data Protection Commission.

For more information, we recommend consulting the Internal Rules of Data Protection of FCIências.ID - Association for Research and Development of Sciences at <https://fciencias-id.pt/>.

16. **Time limits for the appeal procedure:** In case of negative decision, the candidates have 10 business days, after the date of announcement of the results of the candidates evaluation, to pronounce their disagreement in accordance with the *Código do Procedimento Administrativo*. Appeals against the final decision may be submitted to the Administration Board of FCIências.ID (fciencias.id@fciencias-id.pt) within 15 business days after the notification date

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Note 1: The documents that prove the entitlement of the academic qualifications and diplomas can be dismissed during the application period and replaced by a declaration on their honour from the applicant ([Minuta PT](#), [Minute EN](#)). Their delivery is mandatory for the fellowship contractualization.

Note 2: Please note that - higher education degrees and diplomas awarded by foreign higher education institutions - need to be recognized by a Portuguese higher education institution, pursuant to the [Decree-Law nr. 66/2018](#) (August 16) and the [Ministerial Order nr. 33/2019](#) (January 25). The presentation of the recognition certificate is mandatory for contract signature. More information can be obtained at: <https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>.