

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

1 (one) Research Fellowship (BI) for a Master enrolled in a non-degree course

1 Research Fellowship(s) (BI) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project “Mars Winds and Wave Mapping - MWWM”, financed by European Space Agency, under the following conditions:

1. **Scientific Area:** Astronomy and Astrophysics or Geography
2. **Requirements for admission:** Master degree completed.
3. **Additional optional skills and qualifications:** Experience in digital topographic models (DTM) on Mars and mineralogical studies on Mars using hyperspectral cameras.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in non-degree course developed in association or cooperation between a High Education Institution and one or multiple research units.
5. **Work plan:**
 - Identify and characterize morphological evidence associated with fluvio-marine environments on Mars (using Mars Express wide planetary map)
 - Use OMEGA spectra datasets from Mars Express and CRISM/MRO as well, to detect and characterize specific minerals in old fluvio-marine systems on Mars surface. The methodology proposed is based in the diverse reflectance properties of the minerals we intend to study. Spectroscopic analyses will be implemented on the selected datasets.
 - Explore the possibility of using Exomars TGO (Trace Gas Orbiter) CASSIS instrument to also perform reflectance studies of minerals on Mars
 - Use Mars Express (MEx) archive PSA and HRSC instrument archive (<https://sci.esa.int/web/mars-express/-/42773> second mars express data workshop) to constrain and characterize possible Martian old shorelines of Ocean Borealis (northern hemisphere)
 - Build Digital Topographic Maps (DTM) of Martian selected areas using stereo cameras data from: HRSC, HIRISE and CTX. The mineralogical studies will integrate the topographic knowledge of the selected regions, the state-of-the-art information about the atmosphere lower layers and local radiative transfer, and the spectral mineralogical reflectance "finger print" as well.

Objectives: perform two-fold studies on selected Martian regions: DTM of the selected areas and mineralogical studies of the same areas using reflectance methods and hyperspectral data.
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](https://www.fciencias.id/regulamento-de-bolsas-de-investigacao-cientifica-da-fciencias.id)).
7. **Place of work:** The work will be developed at the Instituto de Astrofísica e Ciências do Espaço, Lisbon pole under the scientific supervision of Professor Pedro Machado.

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8. **Fellowship duration:** This position is initially opened for 4 months due to start in June 2024. The fellowship contract may be potentially renewed for 1 month.
9. **Monthly allowance:** The fellowship amounts to € 1259,64, 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 a) CV evaluation (60%) and b) motivation letter (40%).
The jury may conduct an interview with the top 3 (three) candidates in total of criteria a) and b). If there is an interview, the final evaluation will be obtained considering the following percentages: a) CV evaluation (40%), b) motivation letter (30%), c) interview (30%).
Applicants whose application is scored with a final classification of less than 70 points are not eligible for granting a fellowship.
11. **Selection Committee:** Pedro Machado (president), José Afonso (effective member), Nelson Nunes (effective member), António da Silva (alternate member), Israel Matute (alternate member).
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 13/05/2024 to 21/05/2024 .
14. **Application:** Applications should be sent via e-mail to pmmachado@fc.ul.pt, by attaching the following documents:
a. Curriculum vitae;
b. Certificate of completion of previous degree ^{Note 1, 2};
c. Motivation letter.
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.

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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.

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>.