

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

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

1 Research Fellowship(s) (BI) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution “CENTRA - Centre for Astrophysics and Gravitation”, “UIDP/00099/2020”, funded by the Fundação para a Ciência e a Tecnologia, I.P./MCTES through national funds (PIDDAC) under the programme multiannual funding program contract of the CENTRA - Multidisciplinary Center for Astrophysics - UI0099, programmatic funding, under the following conditions:

1. **Scientific Area:** Astronomy and Astrophysics
2. **Requirements for admission:** Degree in Physics, Astrophysics or Astronomy. Demonstrated experience with the python package “galpy”, statistical analysis using “bootstrapping” and “kernel density estimation” methods in python. Research experience on the structure of the Milky Way.
3. **Additional optional skills and qualifications:** Have taken undergraduate or postgraduate courses in the areas of stellar astronomy, stellar populations, object programming, or programming in Java.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in Master degree.
5. **Work plan:** Continue the development of a dynamical model of the evolution of the scale height of the Galactic thin disk as traced with open clusters (OCs). The model upgrades include:
 - Creation of OCs according to specified star formation rates and cluster mass distributions.
 - Integration of OC orbits in a realistic Galactic potential.
 - Disruptive effects of internal OC dynamics.Simulations using the model will be compared with observational data from the ESA Gaia satellite through detailed statistical analysis.
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 CENTRA - Centre for Astrophysics and Gravitation under the scientific supervision of Professor André Moitinho de Almeida.
8. **Fellowship duration:** This position is initially opened for 6 months due to start in June 2023. The fellowship contract may be potentially renewed for until the end of the project, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.
9. **Monthly allowance:** The fellowship amounts to € 930,98, according to [table values](#) of the fellowships awarded directly by the FCT, IP. 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.

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10. **Evaluation and selection process:** Candidates will be assessed by a) Academic training (15%); b) Experience in the scientific fields described in paragraphs 2 and 3 (75%); c) Letter of motivation (10%). The jury may interview the top 3 (three) classified in the total of criteria a), b) and c), in order to obtain clarification, additional information and/or presentation of the elements presented. If there is an interview, the sum of the evaluations obtained in the evaluation criteria a), b) and c) will correspond to 70% of the final classification and the interview to 30%.

Applicants whose application is scored with a final classification of less than 80 points are not eligible for granting a fellowship.

11. **Selection Committee:**

Prof. Dr. André Moitinho de Almeida, Faculdade de Ciências da Universidade de Lisboa (president);

Prof. Dr. António Amorim, Faculdade de Ciências da Universidade de Lisboa (effective member);

Prof. Dr. Paulo Garcia, Faculdade de Engenharia da Universidade do Porto (effective member);

Dra. Koraljka Muzic, Faculdade de Ciências da Universidade de Lisboa (alternate member);

Prof. Dr. José Figueiredo, Faculdade de Ciências da Universidade de Lisboa (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 12/05/2023 to 25/05/2023 .

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

- a. Curriculum vitae;
- b. Certificate of completion of previous degree;
- c. Letter of motivation.

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

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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, or the proof of registration in the academic degree or diploma requested on the call, can be dismissed during the application period and replaced by a declaration on their honour from the applicant. 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>.