

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

1 (one) Research Fellowship (BI) for 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 “Instituto de Astrofísica e Ciências do Espaço”, “UIDP/04434/2020”, funded by the Fundação para a Ciência e a Tecnologia, I.P./MCTES through national funds (PIDDAC) under the programme Financiamento Plurianual de Unidades de Investigação, under the following conditions:

1. **Scientific Area:** Astronomy and Astrophysics
2. **Requirements for admission:** The applicant must have completed a BSc degree in Astronomy/Astrophysics, or a related discipline, Only applications from candidates having an adequate background in Astronomy, Physics, Mathematics, or other relevant domains, will be considered. Additionally, candidates must fulfil the following requirements: – Demonstrated skills in programming (in particular using python) – Knowledge of Spectral Fitting tools - Derivation of BPT diagram.
3. **Additional optional skills and qualifications:** Experience in optical data analysis and emission lines diagnostics is considered beneficial for the position and will count positively in the evaluation.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in MSc Program of a University in Portugal.
5. **Work plan:** The student will apply advanced spectral fitting tools for the study of the assembly history of galaxies resolved in space and time, in particular contributing to the application of the population spectral synthesis code FADO, a conceptually novel code for the exploration of emission lines diagnostic diagrams, such as the BPT of Baldwin, Phillips & Terlevich 1981. The student will also test and refine a new classification scheme for ionization sources in galaxies based on SDSS works.
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 Lisbon Pole of Institute of Astrophysics and Space Sciences (IA) (Faculty of Sciences of the University of Lisbon and Observatório Astronómico de Lisboa, Tapada da Ajuda, Lisboa) under the scientific supervision of Professor Cirino Pappalardo and Professor José Afonso.
8. **Fellowship duration:** This position is initially opened for 3 months due to start in February 2023. The fellowship contract may be potentially renewed for 3 months.
9. **Monthly allowance:** The fellowship amounts to € 875,98, 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.) (10%) Cover letter, with a brief description of the candidate's experience and motivation;
 - b.) (40%) CV, considering the degree and the previous academic training, including outcomes and contents of completed curricular units and the relevance of that training for the topic;
 - c.) (50%) Relevance and adequacy of previous research experience to the work plan.
- An ordered list of candidates will be defined by the selection committee based on the submitted documents and the criteria mentioned above.
- Applicants whose application is scored with a final classification of less than 70 points are not eligible for granting a fellowship.
11. **Selection Committee:** José Afonso (president); Jarle Brinchmann (effective member); Polychronis Papaderos (effective member); Catarina Lobo (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 13/01/2023 to 26/01/2023 .
14. **Application:** Applications should be sent via link <http://iastro.pt/ia/jobDetails.html?ID=211> , by attaching the following documents:
- a. Curriculum vitae - **CV may be provided in PDF or through the [CIÊNCIAVITAE](#) system;**
 - b. Certificate of completion of previous degree;
 - c. Cover letter, with a brief description of the candidate's experience and motivation.
15. **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, 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>.