

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

1 Research Fellowship (BI) for a PhD Student

1 Research Fellowship (BI), for a PhD student is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution CC 0481 – DarkRipple -- PTDC/FIS-OUT/29048/2017, financed by FCT – Fundação para a Ciência e Tecnologia, under the following conditions:

1. **Scientific Area:** Cosmology
2. **Requirements for admission:** Students enrolled in a doctoral program. The applicant must have completed a Master's degree. Only applications from candidates having an adequate background in Astrophysics and Cosmology will be considered.
3. **Additional optional skills and qualifications:** Demonstrated experience in the field of cosmology in particular, programming skills for parameter estimation.
4. **Work plan:** the fellowship holder will work on gravitational waves in modified gravity, and is expected to (i) linearize the field equations around a Minkowski background; (ii) determine the effective masses, from the propagating degrees of freedom, and the presence of tachyon instabilities and ghosts will be identified; (iii) find solutions to the modified dispersion relations for the massless/massive modes and study the polarization states of the GWs.
5. **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](#)).
6. **Place of work:** The work will be developed at the Institute of Astrophysics and Space Sciences, at the Faculty of Sciences of the University of Lisbon, Lisbon, Portugal, under the scientific supervision of Professor Francisco S.N. Lobo.
7. **Fellowship duration:** This position is initially opened for 5 months and will begin on May of 2021.
8. **Monthly allowance:** The fellowship amounts to € 1.104,64 ,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.
9. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV (45%) and adequacy of CV and candidate profile to work plan (45%), and motivation letter (10%).
10. **Selection Committee:** Francisco Lobo (President of the jury), Nelson Nunes, António da Silva (members) and José Mimoso (alternate).

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11. **Publication/notification of results:** All the candidates will be notified by e-mail, sent by the call holder, with the selection meeting minutes enclosed.
12. **Deadlines:** This call for applications is open from 28/04/2021 to 11/05/2021 .
13. **Application:** Applications should be sent via e-mail to Applications should be submitted to the form <http://www.iaastro.pt/ia/jobDetails.html?ID=164> , by attaching the following documents:
- Curriculum vitae;
 - Certificate of completion of previous degree;
 - Proof of registration in the study cycle that confers the requested degree in this call;
 - Motivation Letter and other documents considered relevant.
14. **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 during 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>.