

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

### 2 (two) Research fellowships for a MSc student

2 Research Fellowships (BI) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution CRISP/CENTRA, PTDC/FIS-AST/31546/2017, funded by the Fundação para a Ciência e a Tecnologia, I.P./MCTES through national funds (PIDDAC) under the programme FCT/MCTES (PIDDAC) All Scientific Domains , under the following conditions:

1. **Scientific Area:** Physics – Astrophysics and Gravitation
2. **Requirements for admission:** Degree in Physics, Engineering Physics, Astronomy or equivalent
3. **Additional optional skills and qualifications:** previous experience in reduction, analysis and simulation of astronomical data. Good knowledge of programming in python and basic knowledge of machine learning. Planning to finalize the degree and having no pending courses other than the Master's thesis
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas with indication of the degree and/or non-degree courses. Enrolment in a Master's program in Physics, Engineering Physics or equivalent.
5. **Work plan:** Improve the knowledge related to the dust extinction towards supernova by fitting supernova light-curve with state-of-the-art Bayesian inference techniques to obtain dust extinction amount and constrain the shape of the reddening curve for a population of more than 150 supernovae; study of the contamination of the moon light to the supernova observations and the impact on supernova observations. The work plan is related to the Working package "Astrostatistics and Astroinformatics methodologies for SN extinction and reddening".
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 16<sup>th</sup> 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 12<sup>th</sup> 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 the CENTRA – Center for Astrophysics and Gravitation da Faculdade de Ciências da Universidade de Lisboa, in collaboration with the Instituto Superior Técnico da Universidade de Lisboa under the scientific supervision of Professor André Moitinho de Almeida..
8. **Fellowship duration:** This position is initially opened for 3 months due to start in June 2022. 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 € 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*.

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The fellowship will be paid monthly by bank transfer

10. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV the weights for the CV: 30% for the academic grades at Licenciatura/Bachelor degree, and 70% for the experience in scientific research related to the field of the working plan. The best three candidates might be invited for an interview. At this point, the weight of the interview will be of 50%. The interview might occur by video conference for candidates from outside Lisbon..
11. **Selection Committee:** André Moitinho de Almeida (President of the Jury), Ana Mourão (vogal efectiva), Santiago Gonzalez Gaitan (vogal efectiva), António Amorim (vogal suplente).
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 09/05/22 to 23/05/2022 .
14. **Application:** Applications should be sent via e-mail to [andre@sim.ul.pt](mailto:andre@sim.ul.pt), subject: *CRISP application*, 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. motivation letter explaining how the work will be related to a MSc thesis;
  - d. any other documents considered relevant by the candidate.
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](mailto: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>.