

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

Research fellowship - 1 vacancy

One research fellowship (Bolsa de Investigação (BI)) for a candidate holding a Master degree is open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, research unit unidade “CENTRA -Center for Astrophysics and Gravitation”, under the project “**Young brown dwarfs as testbeds for star and planet formation**”, with number PTDC/FIS-AST/28731/2017, financed by national funds by FCT / MCTES (PIDDAC) under the Programme All Scientific Domains, under the following conditions:

1. **Scientific Area:** Astronomy & Astrophysics

2. **Requirements for admission:**

- (a) Holder of a Master degree, or being close to completion of a Master degree in the area of Astronomy & Astrophysics, Physics, or a related field.
- (b) Fluency in spoken and written English language.
- (c) Motivation for pursuing research related to observation of young brown dwarfs and stellar clusters.

3. **Factors preferred:**

These factors may be taken into account, but are not a prerequisite for the admission.

- (a) Working knowledge of programming languages or software used in astronomy (e.g. Python, IDL, SQL, TopCat, ds9)
- (b) Previous research experience in the field of observational astronomy.

4. **Work plan:** The successful candidate will work on the project under the general topic of low-mass star and brown dwarf formation. The work will include search for, and characterization of very-low-mass stars, brown dwarfs, including those with masses similar to giant extrasolar planets, and using the state-of-the-art imaging and spectroscopic data (taken with VLT, VISTA and other telescopes) and photometric/astrometric public catalogues (Gaia, PanStarrs). The work will also include simulations of the observations with the James Webb Space Telescope (JWST), and search for the best strategies to be used in the selection of very-low-mass young objects in clusters.

5. **Legislation framework:** Statute of the Scientific Research Fellowship, in accordance with Law 40/2004, of 18 August, as amended and republished by Decree-Law No. 202/2012 of 27 August, and as amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of 9 July; And also by the FCT, I.P. Fellowships Regulation, in force (<https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT.pdf>) and **FCiências.ID** Fellowship Regulation, as approved on 23rd February 2017.

6. **Place of work:** The work will be developed at CENTRA – Center for Astrophysics and Gravitation, at the Faculty of Science of the University of Lisbon, under the scientific guidance of Dr. Koraljka Muzic.

7. **Fellowship duration:** This position is initially opened for 6 months and will begin in October 2018, as earliest. Later starting dates are also possible. The fellowship contract may be renewed to more 30 months, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.

8. **Monthly allowance:** The fellowship amounts to € 980, according to table values of the fellowships awarded directly by the FCT, IP. (<http://www.fct.pt/apoios/bolsas/valores>).

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The fellowship holder will have a personal accident insurance and, if not covered by any social protection scheme can ensure the right to social security through adherence to the voluntary social insurance scheme, pursuant to Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social. The fellowship will be paid monthly by bank transfer.

9. **Selection method:** Candidates will be assessed by the quality of their CV (50%) and the interview (50%). Up to 5 best candidates according to the CV assessment will be invited for an interview. The committee reserves the right not to select any of the candidates, if a well justified motivation exists.

10. **Selection Committee:**

President: Dr. Koraljka Muzic (FCUL)

Member: Prof. Dr. Andre Moitinho de Almeida (FCUL)

Member: Dr. Joana dos Santos Brojo Ascenso (CAUP)

Alternate member: Dr. Alberto Krone Martins (FCUL)

11. **Publication/notification of results:** The final results of the evaluation will become public, through ordered list *final grade obtained* which will be posted at the entrance hall of the **FCiências.ID**, located at the Faculdade de Ciências da Universidade de Lisboa, C1 bldg – 3rd floor, Campo Grande, 1749-016 Lisboa. The applicants will also be notified by *e-mail*.

12. **Deadlines:** This call for applications is open from 29th August to 25th September 2018

13. **Application:** Applications may be sent via e-mail to kmuzic@sim.ul.pt by attaching the following documents, written in English language:

- (1) *Curriculum vitae;*
- (2) *degree certificate*
- (3) *List of publications, if applicable;*
- (4) *A statement describing the previous research experience and motivation to pursue research under the mentioned topic (max. 2 pages);*
- (5) *Two recommendation letters (can be in English or Portuguese) sent directly from the referees to Koraljka Muzic (kmuzic@sim.ul.pt)*

NOTE: Please note that Degrees obtained in foreign countries need a Portuguese Recognition certificate and, in some cases, a equivalence certificate issued by a Portuguese high degree institution according to the Decree-Law nr. 341/2007, of Oct 12th, the ministerial order nr. 29/2008, of Jan 10th and the ministerial order nr. 227/2017, of July 25th. The presentation of such certificates is mandatory for contract signature. For further info please see https://www.ulisboa.pt/sites/ulisboa.pt/files/basicpage/docs/guide_equiv_rec_foreign_degrees_august2017_site.pdf