

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

Two Fellowships BI-RE

Two Fellowships BI-RE for master or doctors are open at the **FCiências.ID – Associação para a Investigação e o Desenvolvimento de Ciências**, for the project **iBrow-Innovative ultra-BROadband ubiquitous wireless communications through terahertz transceivers/CENTRA**, funded by European Union's Horizon 2020 research and innovation programme under grant agreement N.º 645369, under the following conditions:

1. **Scientific Area:** Physics, Physics Engineering, Electrical Engineering or related subjects
2. **Requirements for admission:** master or doctorate in Physics, Physics Engineering Electrical Engineering or related, with research activity in the optoelectronics and telecommunications.
3. **Factors preferred:** Work experience in modelling of optoelectronic and electronic devices and circuits, and optical fibre communication systems; being familiar with resonant tunnelling diode devices and circuits; knowledge of project-specific technical models, equipment or techniques; familiar with MATLAB, SPICE, ADS, or HFSS.
4. **Work plan:** Conduct assigned research individually or jointly including the modelling/simulation and/or the characterization of resonant tunnelling diode photodetectors, and hybrid optoelectronic circuits incorporating resonant tunnelling diodes and laser diodes. Participating in the activities associated to the build of a demonstration test-bed and performance assessment of RTD based wireless transceivers.
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 (<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>) and **FCiências.ID** Fellowship Regulation, as approved on 23rd February 2017.
6. **Place of work:** work will be developed at Centra-SIM, Faculdade de Ciências, and Instituto de Telecomunicações, Instituto Superior Técnico, Universidade de Lisboa, under the scientific guidance of Professor José Figueiredo, Departamento de Física da Faculdade de Ciências da Universidade de Lisboa.
7. **Fellowship duration:** This position will begin on April 2018 with a duration of 3 months, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P. The transfer of IBROW project to FCIências.ID isn't complete. Only after this process is conclude the fellowship contracts will be signed by FCIências.ID.
8. **Monthly allowance:** The fellowship amounts will be within the range of € 1495 and € 1710. The stipend will be defined by the jury taking in consideration the candidate's cv and work experience.
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:
- Curriculum Vitae (40%);



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- Work experience relevant for the project activities (40%)
- Publication record in the areas of the project (20%).

Only applicants with score equal or higher than 70% will be considered for available fellowships. If considered necessary by the selection committee, the three best-ranked candidates reaching a final score equal or higher than 70% (seventy percent) can be subjected to an interview, which will then represent 30% of their final mark.

10. **Selection Committee:**

- Professor José Figueiredo,
- Professor António Amorim,
- Professor André Moitinho,
- Dr Tiago Alves, IT-IST, alternate member.

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 bdg – 3rd floor, Campo Grande, 1749-016 Lisboa, and the selected candidate will be notified by *e-mail*.

12. **Deadlines:** This call for applications is open from 13/03/2018 to 21/03/2018.

13. **Application:** Applications may be sent via e-mail to José Figueiredo, e-mail jmfigueiredo@fc.ul.pt, Reference/subject **Bolsa-IBROW-2018**, by attaching the following documents:

- Detailed Curriculum Vitae;
- Certified transcripts showing the academic degrees awarded;
- Motivation letter;
- Other relevant documents (e.g., recommendation letters).

