

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

(One Research fellowship for Master Degree)

One Fellowship, (*tax exempt scholarship*), for a *Master* is open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project “*S-LoTTuSS Scalable Low-cost Tandem Tunnel junctions for Silicon Solar / Instituto Dom Luis, PTDC/CTM-CTM/28962/2017*, financed by national funds by *FCT / MCTES (PIDDAC)* under the Programme All Scientific Domains, under the following conditions:

- Scientific Area:** Physics or Chemistry or Materials Science
- Requirements for admission:** Master in Sciences (MSc) or equivalent.
- Factors preferred:** a) Master degree dissertation/project was lab based development of materials. b) Post degree experience working in scientific research labs.
- Work plan:**
 - Month 1: Exhaustive bibliography review of literature concerning interconnection strategies of bottom and top cells for monolithic tandem solar cells.
 - Month 2 and 3: CVD reactor training.
 - Month 4 to 8: CVD reactor adaptation for TJ deposition.
 - Month 9 to Month 12: Deposition of thin films for preliminary testing.
 - Month 9 to Month 12: Electrical and physical characterization of Si tunnel junctions.
 - Month 12: Detailed reports of bibliography review and experimental procedures.
- 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.
- Place of work:** The work will be developed at the IDL and DEGGE (FCUL) under the scientific guidance of Professor Killian Lobato.
- Fellowship duration:** This position is initially opened for 6 months and will begin on February 2019. The fellowship contract may be renewed to more 18 months, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.
- Monthly allowance:** The fellowship amounts to € 980.00, according to table values of the fellowships awarded directly by the FCT, IP. (<http://www.fct.pt/apoios/bolsas/valores>).
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.
(add, where applicable, other financial components, periodicity and method of payment of fellowship (fellowships)).
- Selection method:** Candidates will be assessed by the quality of their CV (30 %) and interview (70%).

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10. **Selection Committee:** Professor Killian Lobato (President), João Serra (Member), José Silva (Member), Miguel Brito (substitute).
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, and the selected candidate will be notified by *e-mail*.
12. **Deadlines:** This call for applications is open from 25th January to 7th February 2019.
13. **Application:** Applications may be sent via e-mail to Prof. Killian Lobato (klobato@fc.ul.pt), by attaching the following documents: CV and course certificate or diploma in PDF format.

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 certificate request date must be prior to the application deadline. The presentation of such certificates is mandatory for contract signature. For further info please see <https://www.ulisboa.pt/en/info/foreign-qualifications-0>