

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

### One Research Fellowship - Doctor

One Research Fellowship for Doctor is open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project, “Superando problemas ambientais associados aos agentes anti-incrustantes: síntese de biocidas não tóxicos inspirados na Natureza e imobilização em revestimentos poliméricos, PTDC/AAG-TEC/0739/2014”, POCI-01-145-FEDER-16855, financed by national funds by FCT / MCTES (PIDDAC) and FEDER under the Programa Operacional Regional Lisboa 2020, under the following conditions:

1. **Scientific Area:** Chemical Sciences, Environmental chemistry, chemical engineering.
2. **Requirements for admission:** Doctoral certificate.
3. **Factors preferred:** Experience in organic synthesis and materials characterization by spectroscopic techniques such as NMR and FTIR.
4. **Work plan:** This work aims to developed new functional nature-based biocides in order to become able to be further chemical immobilised in polymeric matrices, such as marine paints, thus offering potential new antifouling products for the protection of surfaces against biofouling. In particular, for the chemical immobilisation of biocides a recent functionalisation process (WO2016/093719 A1) will be used. This chemical immobilisation strategy will avoid the release of toxic biocides into the environment, thus also becoming a potential eco-friendly technology. The main planned tasks include the:
  - Direct immobilisation of nature-based molecules in polymeric systems (e.g. marine paints); compatibility study, including an exhaustive selection of the best compatible additives in order to promote good dispersions.
  - Functionalisation of bioactive molecules (biocides), including an accurate pre-selection of the most potential ones in terms of compatible functionalities.
  - Iterative formulation/optimisation of the bioactive polymeric systems
  - Physical-chemical characterization of bioactive nature-based molecules before and after functionalisation as well as of the obtained polymeric systems.
  - Ability to write scientific papers and reports.
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 23<sup>rd</sup> February 2017.
6. **Place of work:** The work will be developed at the CQB – Centro de Química e Bioquímica, Faculdade de Ciências da Universidade de Lisboa under the scientific guidance of Professor Elisabete Ribeiro Silva and Maria José Diogo da Silva Calhorda.
7. **Fellowship duration:** This position is opened for 6 months, and will begin on November 2018 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 € 1495, 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 Curriculum Vitae (70%) and relevance of prior experience (25%). In case of a tie the candidates with the highest rating will be called for an interview (5%).

10. **Selection Committee:**

- Maria José Diogo da Silva Calhorda (President)
- Elisabete Ribeiro Silva (Member)
- Paulo Jorge Costa (Member)
- Helena Gaspar (Substitute 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 – 3<sup>rd</sup> 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 16<sup>th</sup> to 29<sup>th</sup> October 2018.

13. **Application:** Applications may be sent via e-mail to [ersilva@fc.ul.pt](mailto:ersilva@fc.ul.pt) , by attaching the following documents: Qualification certificate and *Curriculum vita*.

**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](https://www.ulisboa.pt/sites/ulisboa.pt/files/basicpage/docs/guide_equiv_rec_foreign_degrees_august2017_site.pdf)