

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

### One fellowship for a candidate with a BSc

One Fellowship for a candidate with a BSc degree, is open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the 'IN SILICO NANOBIO SOLUTIONS: COMPUTATIONAL DESIGN OF BIOACTIVE METAL COMPLEXES AND POLYOXOMETALATES FOR MEDICAL APPLICATIONS' Project PTDC/QUI-QFI/29236/2017, financed by national funds by FCT / MCTES (PIDDAC) under the Programme All Scientific Domains, Strategic Programme, under the following conditions:

1. **Scientific Area:** Chemistry
2. **Requirements for admission:** Degree in Chemistry, Biochemistry or related area.
3. **Factors preferred:** Experience in Computational Chemistry – Quantum methods or Molecular Mechanics or Simulation.
4. **Work plan:** The work plan consists of studying the mechanism of the cleavage of the phosphodiester bond in models such as BNPP (bis-4-nitrophenyl phosphate), HPNP (2-hydroxypropyl-4-nitrophenyl phosphate), and NPP (4-nitrophenyl phosphate) using polyoxometalates (POM)  $[\text{Mo}_7\text{O}_{24}]^{6-}$  as models of phosphodiesterase. This study may be widened to ATP and the  $\text{Na}_4[\text{Mo}_8\text{O}_{26}(\text{proO})_2]$  POM (proO=proline), contingent on the evolution of the project. The goals include the determination of the relevant intermediates, and when possible of the transition states and the spectroscopic characterization of involved species, as well as the energetics of the process.
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 Biosystems and Integrative Sciences Institute da Faculdade de Ciências, Universidade de Lisboa, under the scientific guidance of Doctors Nuno A. G. Bandeira and Adrià Gil-Mestres.
7. **Fellowship duration:** This position is initially opened for six months and will begin on November 2018. The fellowship contract may be renewed for more six months, upon evaluation, and if needed 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.
8. **Monthly allowance:** The fellowship amounts to € 745, 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.

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9. **Selection method:** Candidates will be assessed by the quality of their academic and scientific CV (75 %) and the motivation letter (10 %). After the curricular evaluation, the top three candidates may be called for an interview (15 %) if their score is less than 5 points apart. The final grade will be 0-85 (no interview) or 0-100 (with interview).

10. **Selection Committee:** President: Adrià Gil Mestres

Member 1: Maria José Calhorda

Member 2: Nuno A. G. Bandeira

Alternative: Nuno Galamba.

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 – 3<sup>rd</sup> floor, Campo Grande, 1749-016 Lisboa, and all the candidates will be notified by *e-mail*.

12. **Deadlines:** This call for applications is open from 7 to 20 November 2018.

13. **Application:** Applications may be sent via e-mail to Nuno Bandeira ([nuno.bandeira@ciencias.ulisboa.pt](mailto:nuno.bandeira@ciencias.ulisboa.pt)), by attaching the following documents: Curriculum vitae, Motivation Letter and Certificates.

**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/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)