

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

One Postdoc Fellowship

One Postdoc Fellowship is open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa, F.P. (FFCUL)**, for the project “CpHMD-L simulations of pHLIP peptides: design of new tumor-targeted drug delivery systems”, PTDC/QEQ-COM/5904/2014, financed by national funds by FCT / MCTES (PIDDAC) under the Programme All Scientific Domains, under the following conditions:

1. **Scientific Area:** Computational Biochemistry and Molecular Modeling

2. **Requirements for admission:** PhD in Biochemistry or related areas

3. **Factors preferred:** Research experience in molecular modeling techniques: MD simulations of peptides/proteins and lipid bilayers; Continuum electrostatics methods; accelerated MD and free energy calculation techniques.

4. **Work plan:**

The work will focus on understanding the molecular details of pH dependent peptide/membrane interaction and insertion, using accelerated techniques within the constant-pH MD methodologies (CpHMD). The objective is the development of a new pH-replica exchange CpHMD method, in order to circumvent the protonation and conformation sampling limitations.

5. **Legislation framework:** A fellowship contract will be celebrated according to the regulations defined by FCT “Regulations for Advanced Training and Qualification of Human Resources”, 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 FFCUL’s Fellowship Regulation, as approved on 22nd December 2014.

6. **Place of work:** The work will be carried out at the Centro de Química e Bioquímica da Faculdade de Ciências da Universidade de Lisboa, under the scientific guidance of Dr. Miguel Machuqueiro.

7. **Fellowship duration:** This position is opened for an initial period of 3 months and will begin on the 1st of January 2017. The fellowship contract may be renewed up to 8 months (31 of August 2017), in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology.

8. **Monthly allowance:** The fellowship amounts to € 1495, in accordance with the values established for such fellowships when awarded directly by 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 security 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.

The fellowship amounts are tax free.

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9. **Selection method:** Admitted candidates will be assessed by the quality of their academic and scientific CV, taking into account the preferred factors mentioned above (80%) and the letter of motivation (10%). After curricular evaluation, if needed, the top candidates may be called for an interview (10%). The final grading will be on a scale of 0-90 (without interview) and 0-100 (with interview).

10. **Selection Committee:** Miguel Machuqueiro (president), Maria José Calhorda, Paulo J. Costa, Nuno Galamba (members).

11. **Publication/notification of results:** The final results of the evaluation will become public, through ordered list and final grade obtained which will be posted at the entrance hall of the FFCUL, C1 bdg – 3rd floor, Campo Grande, 1749-016 Lisboa, and the selected candidate will be notified by email.

12. **Deadlines:** This call for applications is open from 28th November to 13th December 2016.

13. **Application:** Applications may be sent via e-mail to machuque@ciencias.ulisboa.pt, by attaching the following documents: Curriculum vitae, with clear identification of publications and citations from the ISI Web of Science, the names of two referees, and motivation letter.