



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

Two research fellowships for Bachelors or Masters

Two research fellowships for Bachelors (BSc.) or Masters (MSc.) are open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa**, for the project “Auto-agregação do modelo de colóides de Lisboa em superfícies estruturadas e mais”, EXCL/FIS-NAN/0083/2012, with financial support from the funding framework in force the financial support of FCT / MEC through national funds under the Excellent programme, under the following conditions:

1. **Scientific Area:** Physics;
2. **Requirements for admission:** Bachelor or Master degree in Physics or related areas (< 5 years);
3. **Factors preferred:** research experience in soft condensed matter or statistical mechanics.
4. **Work plan:** This Project is focused on the study of surface and interfacial phase transitions which are fundamental problems in Statistical Physics and key to control the behaviour of adsorbed fluids at the mesoscale. We aim at a theoretical description of Lisbon colloids on substrates. In particular, we aim to generalize the Landau-Safran theory to calculate the phase diagrams and interfacial properties of binary mixtures of structured fluids (Task 2) and to investigate the interfacial and surface properties of such fluids by means of density functional theory (Task 4). The calculation of the bulk phase diagrams are suitable problems for candidates with a BSc, while the calculation of the interfacial phase diagrams are more suitable for candidates with an MSc.
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 of 2013 approved by Regulation No. 234/2012, of June 25, as amended by Regulation No 326/2013 of 27 August 2013, in force (www.fct.pt/apoios/bolsas/regulamento.phtml.pt)
6. **Place of work:** The work will be carried out at the Centro de Física Teórica e Computacional da Faculdade de Ciências da Universidade de Lisboa, under the scientific guidance of Professor Margarida Maria Telo da Gama.
7. **Fellowship duration:** These positions are for 6 months and will begin as soon as possible. They are initially opened for 6 months and the fellowship contracts may be renewed for additional periods, up to the end of March 2016, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P. - 2013.
8. **Monthly allowance:** The fellowships amount to € 980 (MSc.) or € 745 (BSc.), 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.
9. **Selection method:** Candidates will be assessed by the quality of their CV, including research experience in the area of the project (75%) and letter of motivation and skype interview (25%). Each component will be evaluated on a scale 0-20.



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10. **Selection Committee:** Margarida Telo da Gama (president), Nuno Araújo, José Maria Tavares (members), Paulo Ivo Teixeira, Nelson Rei Bernardino (supplementary members).
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 **Fundação da Faculdade de Ciências da Universidade de Lisboa**, 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 email.
12. **Deadlines:** This call for applications is open from April 22nd to May 29th.
13. **Application:** Applications may be sent via e-mail to mmgama@fc.ul.pt, by attaching the following documents: Curriculum vitae, degree certificates, letter of motivation and at least two letters of recommendation.