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

(One Post-doctoral Fellowship)

One Post-doctoral Fellowship is opened at **Fundação da Faculdade de Ciências da Universidade de Lisboa**, in the projet Scaling Properties for Chain Polymers Modeled by Fractional Brownian Motion Paths, PTDC/MAT-STA/1284/2012, financed by national funds by FCT / MEC (PIDDAC) under the programme *in All Scientific Domains*, under the following conditions:

1. **Scientific Area:** Mathematics

2. **Requirements for admission**: PhD in Mathematics obtained less than last 5 years ago, research experience in the computer simulation of equilibrium ensembles for large dynamical systems, and in white noise analysis based path integrals, fluency in written and spoken English. Also, it is crucial that the candidate has experience in working within a team, and good communication skills.

3. **Work plan**: The candidate will work on the objectives of the project, in collaboration with the other team members. The aim of the project is to pursue a comprehensive analytic and computational study of conformations and of the Flory index for chain polymers modeled by fractional Brownian motion paths. Computer simulations play a pivotal role to test theoretical hypotheses in this new field. They will be the central task of the candidate.

4. **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; Fundação para a Ciência e a Tecnologia, I.P. Fellowships Regulation of 2012.

5. **Place of work**: The work will be developed at Centro de Matemática e Aplicações Fundamentais da Faculdade de Ciências da Universidade de Lisboa under the scientific guidance of Professor Maria João Oliveira.

6. **Fellowship duration**: This position is initially open for 6 months and will begin in September, 2013. The grant contract may be renewed to more 6 months, until one total duration the 12 months.

7. *Monthly allowance*: The fellowship amounts to € 1495, according to table values of the scholarships awarded directly by the FCT, IP. (http://www.fct.pt/apoios/bolsas/valores).
The grant 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 scholarships will be paid monthly by bank transfer.

8. **Selection method**: Candidates will be assessed by the quality and project relevance of their CV (65%) and if necessary assessments requested from the referees (35%).

9. **Selection Committee**: Professor Maria João Oliveira (president), Professor Samuel Eleutério, Professor Ludwig Streit (full members) and Doctor Rui Vilela Mendes (substitute member).

10. **Publication/notification of results**: The final results of the evaluation will become public, through a raking ordered list, 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 bdg – 3rd floor, Campo Grande, 1749-016 Lisboa, and the selected candidate will be notified by email.

11. **Deadlines**: This call for applications is open from June 11 to 26, 2013.

12. **Application:** Applications should be sent via e-mail to Professor Maria João Oliveira (oliveira@cii.fc.ul.pt), by attaching the following documents: covering letter, detailed academic *Curriculum Vitae* including a list of publications, certificate of obtained degrees, a research statement addressing past research experience and how it relates to the project, indication of at least two referees and their contact information.