



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

### One Research Fellowship for PhD

One Research Fellowship for PhD is open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa, F.P. (FFCUL)**, for the project/R&D institution “Centro de Matemática, Aplicações Fundamentais e Investigação Operacional (CMAF-CIO)”; MAT/04561, with financial support provided by the FCT/MCTES through National funds, under the following conditions:

1. **Scientific Area:** Biomathematics
2. **Requirements for admission:** Applicants must hold a Ph.D. in Applied Mathematics, Population Biology or a similar discipline with strong qualitative component.

Applicants should have: research experience in working with mathematical modelling and statistical analysis for dengue fever epidemiology; a strong interest in infectious disease epidemiology, specially vector borne diseases; ability to collate and analyse data, interpret and present results to a high standard using a range of specialised research techniques; programming experience in C or C++; excellent verbal and written communication skills in English; experience in communicating research findings to a non-specialist audience; ability to work independently but also as part of a larger interdisciplinary research team; experience in project writing.

3. **Work plan:** To model Dengue fever epidemiology. Specifically, to investigate the epidemiological dynamics of dengue fever spreading using methods from dynamical systems theory and reaction-diffusion systems with special emphasis on stochastic dynamics, including spatially extended systems, and statistics for parameter estimation from data sets available to the research group. Modelling of control measures like vaccination and mosquito control and the analysis of its impact will be performed.
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, 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.
5. **Place of work:** The work will be developed at CMAF-CIO within the research group Biomathematics and Statistics, see <http://cmafcio.campus.ciencias.ulisboa.pt/node/14>, supervised by Professor Nikolaus Stollenwerk.
6. **Fellowship duration:** This position is initially opened for 12 months and will begin on December 2016. The fellowship contract may be renewed within the project deadline, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.
7. **Monthly allowance:** The fellowship amounts to € 1495 according to table values of the fellowships awarded directly by the FCT, I.P. (<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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8. **Selection method:** Candidates will be assessed by the quality of their CV (50%), quality of research proposal (20%) and matching of the proposal with host research activity (20%). During the selection procedure, candidates may be asked to be interviewed (possibly via conference call) (10%).
9. **Selection Committee:** Chairman: Luís Sanchez Rodrigues; Member 1: Teresa Faria; Member 2: Nikolaus Stollenwerk.
10. **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 **FFCUL**, 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*.
11. **Deadlines:** This call for applications is open from 2 of December to 16 of December 2016.
12. **Application:** Applications may be sent via e-mail to [cmafcio@ciencias.ulisboa.pt](mailto:cmafcio@ciencias.ulisboa.pt) by attaching the following documents: Curriculum vitae including list of publications (max 3 pages), copy of Ph.D. certificate, motivation letter (1 page), research plan (max 4 pages). In addition two reference letters from senior researchers must be sent directly to the same e-mail address. Documents must be named as cv.name.surname.epi, phd.name.surname.epi, letter.name.surname.epi, rp.name.surname.epi