



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

Two postdoctoral fellowships

Two vacancies for postdoctoral fellowships are open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa, F.P. (FFCUL)**, within the scope of the project “Extremal spectral quantities and related problems” PTDC/MAT-CAL/4334/2014, financed by national funds by FCT/ MCTES (PIDDAC) under the *Programme for All Scientific Domains*, under the following conditions:

1. **Scientific Area:** Mathematics
2. **Requirements for admission:** Candidates should have obtained a PhD degree in an area related to the project topics, namely, spectral theory of the Laplace and related operators; the date of the PhD should be after the first of January 2015.
3. **Preferential factors:** It will be considered a preferential factor having done the PhD thesis or having published articles that are directly related to the work plan described in the next point.
4. **Work plan:** Successful candidates are expected to develop their work in the area of the optimisation of eigenvalues of the Laplace and related operators, such as the bi-Laplacian, self-adjoint perturbations and non-self-adjoint perturbations, etc. More specifically, the problems to be considered will be related to low eigenvalues with different boundary conditions, the asymptotic behaviour of optimisers in the high-frequencies optimisation of functional determinants and the distribution of eigenvalues.
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 developed at the Group of Mathematical Physics of the Faculty of Sciences of the University of Lisbon under the scientific supervision of Professors Pedro Freitas, Nuno Dias and João Prata.
7. **Fellowship duration:** The starting dates should be between the 1st of January and the 1st of April 2016. The contract will have an initial duration of 6 months and may be renewed to an extra 18 months, 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 € 1495 per month, 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.
It will also include installation and travel subsidies in agreement with FCT regulations.
9. **Selection method:** Candidates will be assessed by the quality of their CV (100%).
10. **Selection Committee** Pedro Freitas (GFM, President) Nuno Dias (GFM) and Ana Bela Cruzeiro (GFM).



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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 **FFCUL**, 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 *e-mail*.
12. **Deadlines:** This call for applications is open between the 5th to 19th of December 2016.
13. **Application:** Applications may be sent via e-mail to psfreitas@fc.ul.pt and should include the following documents: Curriculum vitae (including the list of publications), pdf files with the publications and a copy of the PhD thesis together with a PhD certificate.