

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

One vacancy for a fellowships

One vacancy for a fellowships for PhD holders is open at the **FCiências.ID – Associação para a Investigação e o Desenvolvimento de Ciências**, 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.
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 or the distribution of eigenvalues.
5. **Legislation framework:** Statute of the Scientific Research Fellowship, 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 (<https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT.pdf>) and **FCiências.ID** Fellowship Regulation, as approved on 23rd February 2017.
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 Professor Pedro Freitas.
7. **Fellowship duration:** This position is initially opened for 3 months and will begin no later than the end of February 2019. The fellowship contract may be renewed for 3 more months, or eventually until the end date of the project (whichever comes first), 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 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%)

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10. **Selection Committee:** Pedro Freitas (GFM, President) Nuno Dias (GFM) and James Kennedy (GFM); Effectives Members, Ana Bela Cruzeiro (GFM), Alternate Member.
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 **FCiências.ID**, 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 *e-mail*.
12. **Deadlines:** This call for applications is open from 23rd January to 5th February 2019.
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.

NOTE: Please note that Degrees obtained in foreign countries need a Portuguese Recognition certificate and, in some cases, a equivalence certificate issued by a Portuguese high degree institution according to the Decree-Law nr. 341/2007, of Oct 12th, the ministerial order nr. 29/2008, of Jan 10th and the ministerial order nr. 227/2017, of July 25th. The certificate request date must be prior to the application deadline. The presentation of such certificates is mandatory for contract signature. For further info please see https://www.ulisboa.pt/sites/ulisboa.pt/files/basicpage/docs/guide_equiv_rec_foreign_degrees_august2017_site.pdf