

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

2 (two) Research Fellowships (BI) for a Master Student

2 Research Fellowship(s) (BI) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution “Grupo de Física Matemática da Universidade de Lisboa”, “UIDP/00208/2020”, funded by the Fundação para a Ciência e a Tecnologia, I.P./MCTES through national funds (PIDDAC) under the programme base multi-year R&D unit funding 2020-2023, under the following conditions:

1. **Scientific Area:** Mathematics or Mathematical Physics
2. **Requirements for admission:** Have completed a degree program corresponding to bachelor level under the Bologna framework, or equivalent, in mathematics, applied mathematics or physics, or in a related area with a strong mathematical component.
3. **Additional optional skills and qualifications:** Have studied, in a bachelor or master's program, or equivalent, at least some of the following topics: mathematical analysis, differential equations, mathematical physics, functional analysis or equivalent(s). In the evaluation of the candidate's curriculum a strong performance in one or more of these areas will be taken into consideration. Have experience studying or working with graph metrics and/or spectral theory, and have experience with research projects.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in a Master degree in mathematics (Mestrado em Matemática) at the Faculty of Sciences of the University of Lisbon.
5. **Work plan:** The research fellow will work on a research project in the area of spectral theory of quantum graphs, more specifically on the relation between analytic and geometric properties of the graph. The fellow will assist Prof. James Bernard Kennedy in synthesising cutting-edge research in the field, and developing new results in this area.
6. **Legislation framework:** Research Fellowship Holder Statute, in accordance with Law 40/2004, of 18 August, in its current version and the FCT Regulation for Research Studentships and Fellowships, in its current version (Reg. 950/2019 published in DR on 16th December: <https://dre.pt/application/file/a/127230968>, or at the FCT website: <https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>), and FCiências.ID Fellowship Regulation, as approved on 12th May 2020 (available at [Regulamento de Bolsas de Investigação Científica da FCiências.ID](#)).
7. **Place of work:** The work will be developed at the Grupo de Física Matemática da Universidade de Lisboa, at the Faculty of Sciences of the University of Lisbon, under the scientific supervision of Professor James Bernard Kennedy.
8. **Fellowship duration:** This position is initially opened for 6 months due to start in April 2023. The fellowship contract may be potentially renewed for 2 months.
9. **Monthly allowance:** The fellowship amounts to € 930,98, according to [table values](#) of the fellowships awarded directly by the FCT, IP. The fellowship holder will have a personal accident insurance and can ensure the right to social security through adherence to the voluntary social insurance scheme, if not covered by any other social protection 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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10. **Evaluation and selection process:** Candidates will be assessed by CV (including academic performance) 100%. And, if the jury considers it necessary, this may be complemented by an interview. In this case the CV will be weighted 70% and the interview 30%. Applicants whose application is scored with a final classification of less than 60 points are not eligible for granting a fellowship.

11. **Selection Committee:** James Bernard Kennedy (president), Giordano Cotti (effective member), Davide Masoero (effective member), Léonard Monsaingeon (alternative member), Ana Bela Cruzeiro (alternative member), Jean-Claude Zambrini (alternative member).

12. **Publication/notification of results:** All the candidates will be notified by e-mail, sent by the call holder, with the selection meeting minutes enclosed.

13. **Deadlines:** This call for applications is open from 15/03/2023 to 28/03/2023 .

14. **Application:** Applications should be sent via e-mail to jbkennedy@fc.ul.pt, by attaching the following documents:

- a. Curriculum vitae - **CV may be provided in PDF or through the [CIÊNCIAVITAE](#) system;**
- b. Certificate of completion of previous degree;
- c. Academic transcript from previous degree;
- d. Any other documentation the applicant considers relevant.

15. **Time limits for the appeal procedure:** In case of negative decision, the candidates have 10 business days, after the date of announcement of the results of the candidates evaluation, to pronounce their disagreement in accordance with the *Código do Procedimento Administrativo*. Appeals against the final decision may be submitted to the Administration Board of FCIências.ID (fciencias.id@fciencias-id.pt) within 15 business days after the notification date

Note 1: The documents that prove the entitlement of the academic qualifications and diplomas, or the proof of registration in the academic degree or diploma requested on the call, can be dismissed during the application period and replaced by a declaration on their honour from the applicant. Their delivery is mandatory for the fellowship contractualization.

Note 2: Please note that - higher education degrees and diplomas awarded by foreign higher education institutions need to be recognized by a Portuguese higher education institution, pursuant to the [Decree-Law nr. 66/2018](#) (August 16) and the [Ministerial Order nr. 33/2019](#) (January 25). The presentation of the recognition certificate is mandatory for contract signature. More information can be obtained at: <https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition>.