

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

2 Research Fellowships for R&D Initiation (BII) for students at bachelor's or master's level

2 Research Fellowships for R&D Initiation (BII) students at bachelor's or master's level is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution GFMUL - Grupo de Física-Matemática da Universidade de Lisboa, UID 00208– special support Verão com Ciência 2022, financed by national funds by FCT / MCTES (PIDDAC) under the programme ``Special support for activities of scientific and technological research in R&D units , under the following conditions:

1. **Scientific Area:** Mathematics or Mathematical Physics
2. **Requirements for admission:** None.
3. **Additional optional skills and qualifications:** Have studied, in a bachelor or master level program, or equivalent, at least some of the following topics: mathematical analysis, differential equations, complex analysis, geometry/differential geometry, mathematical physics, functional analysis, or equivalent. In the evaluation of the candidate's curriculum a strong performance in one or more of these areas will be taken into consideration.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in one of the following degrees at the Faculdade de Ciências da Universidade de Lisboa: Bachelor of Science in Mathematics or Applied Mathematics (i.e. Licenciatura em Matemática ou Licenciatura em Matemática Aplicada), or Master of Mathematics (Mestrado em Matemática), or another bachelor's or master's degree at the same faculty in a related area with a strong mathematical component. Alternatively, it is sufficient to have applied for admission to one of the aforementioned master's programs in the academic year 2022/23, as long as evidence of a valid application (candidatura) and completed bachelor's degree is presented when signing the contract.
5. **Work plan:** The research fellow will deepen their knowledge in an advanced topic in an area/project related to the work of the members of the centre, indicatively: (1) Spectral Theory and Quantum Graphs: extremization problems and partitions of graphs; or (2) Ordinary Differential Equations in Complex Domains: asymptotic and algebra-geometric aspects. Should the research fellow so desire, the project may be continued within the scope of a master's seminar, and there may be the opportunity to integrate the work into a current research project of the supervisor.
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 GFMUL - Grupo de Física-Matemática da Universidade de Lisboa, at the Faculdade de Ciências da Universidade de Lisboa, under the scientific supervision of Professor James Bernard Kennedy, or Dr. Giordano Cotti, or another integrated member of the research centre.
8. **Fellowship duration:** This position is initially opened for 1 month and will begin on August 2022.

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9. **Monthly allowance:** The fellowship amounts to € 486,12 ,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

The research fellow will also be entitled to financial support provided by GFMUL to cover "scientific missions", including research visits and participation in conferences and other scientific events, upon approval by the supervisor, and conditional upon sufficient funding being available.

10. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV (including academic performance), 70%, and an interview (30%), in which the candidate's motivation will be assessed, along with the question of how the research fellowship fits in with their future plans. To be eligible for selection, the candidate must achieve a mean global score among all jury members of at least 60 out of 100.

11. **Selection Committee:** James Bernard Kennedy (President), Giordano Cotti, Davide Masoero, Léonard Monsaingeon (jury members). Ana Bela Cruzeiro (substitute jury member), and Jean Claude Zambrini (substitute jury 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 21/07/22 to 27/07/2022 .

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

- Curriculum vitae - **CV may be provided in PDF or through the [CIÊNCIAVITAE](#) system;**
- Certificate of completion of previous degree;
- Any other documentation the candidate 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>.