

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

1 (one) Research Fellowship for R&D Initiation (BII) for a BSc student

Ref. 931.5 - 1 BII EL SafeSessions

1 Research Fellowship(s) for R&D Initiation (BII) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution Safe Concurrent Programming with Session Types, PTDC/CCI-CIF/6453/2020, financed by national funds by FCT / MCTES (PIDDAC) under the programme Programme All Scientific Domains, under the following conditions:

1. **Scientific Area:** Programming Science and Technology
2. **Requirements for admission:** Programming experience with functional languages.
3. **Additional optional skills and qualifications:** Experience of software development with the Haskell programming language. Enrollment in the degree course in Informatics Engineering at Faculdade de Ciências da Universidade de Lisboa.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in BSc degree in Informatics Engineering
5. **Work plan:** FreeST is an experimental concurrent programming language where the types specify interaction protocols used in inter-process communication. The work developed in the scope of this grant will support the development of the FreeST language, offering tests and expressive use cases that explore recent features of the language. During this grant, the student will have contact with the rest of the FreeST team at LASIGE. This grant will be supervised by Professors Vasco T. Vasconcelos and Andreia Mordido and consists of the following work plan:
 - i). Study the FreeST language; installation of the compiler and writing simple programs.
 - ii). Implement concurrent programs that explore the new features of the language, including definition of type operators, partial application of operators, pattern-matching and shared channels.
 - iii). Enhance the FreeST tutorial (<http://rss.di.fc.ul.pt/tryit/FreeST>), making available a wider offer of examples that explore the several features of the language.
 - iv). Identify possible language improvements, including error messages and pretty printing.
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 LASIGE, Department of Informatics of the Faculty of Sciences of the University of Lisbon under the scientific supervision of Professor Vasco Thudichum Vasconcelos.

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8. **Fellowship duration:** This position is initially opened for 3 months and will begin on April 2022. The fellowship contract may be potentially renewed for until the end of the project months, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.
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
10. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV 50% and Software development experience in Haskell and Freest languages: 50%.
11. **Selection Committee:** President of the jury: Vasco Thudichum Vasconcelos; Members: Alcides Fonseca and Andreia Mordido; Alternate member: Diogo Poças
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 01/04/22 to 14/04/2022 .
14. **Application:** Applications should be sent via e-mail to lasige-candidaturas@listas.di.ciencias.ulisboa.pt, indicating in the "Subject": Ref. 931.5 - 1 BII EL SafeSessions, by attaching the following documents:
- Curriculum vitae - **mandatory availability through the CIÊNCIAVITAE system**;
 - Certificate of completion of previous degree;
 - Proof of completion of undergraduate discipline in functional programming
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>.