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

1 (one) Research fellowship for R&D Initiation
Ref.: 922.V3 – 1 BII Verão com Ciência

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 LASIGE special support "Summer with Science", financed by Fundação para a Ciência e a Tecnologia, I.P./MCTES under national funds (PIDDAC) and within the scope of Special support for scientific and technological research activities in R&D units, under the following conditions:

1.   **Scientific Area**: Computer Science and Engineering.

2.   **Requirements for admission**: None.

3.   **Additional optional skills and qualifications**: Development experience in functional programming languages (e.g., Haskell).

4.   **Contracting requirements**: Presentation of the academic qualifications and/or diplomas. Enrolment in BSc or MSc in Informatics or Informatics Engineering.

5.   **Work plan**: The work plan consists of the study of the SmartScribble programming language and the development of small smart contracts. SmartScribble is a programming language for smart contracts and targets the Cardano blockchain, the fifth largest blockchain in the international ranking (https://coinmarketcap.com). From the description of a protocol, the SmartScribble compiler generates a smart contract in Plutus, the native programming language for smart contracts from the Cardano blockchain. The programmer can add business logic to the generated Plutus code. With this project we intend to test the language in real case studies, aligned with the interest of the industry. The work plan consists of: Week 1: Study of SmartScribble and Plutus languages; writing simple smart contracts; Week 2: Writing of a smart contract in Plutus specifying a supply chain for bio products; Week 3: Identify possible vulnerabilities in the Plutus contract, taking advantage of the advisor's previous work in identifying weaknesses in the Plutus language; Week 4: Writing a SmartScribble protocol and its business logic for the same scenario: specifying a supply chain for organic products. Identify SmartScribble limitations in this case study.

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 LASIGE, Faculdade de Ciências da Universidade de Lisboa under the scientific supervision of Professor Andreia Mordido.

8.   **Fellowship duration**: This position is initially opened for 1 months and will begin on September 2021.

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9.	**Monthly allowance**: The fellowship amounts to € 446,12 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 100% .

11.	**Selection Committee**: Chair: Andreia Mordido; Members: Vasco Vasconcelos and Alcides Fonseca; Replacement Member: Francisco Martins.

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 06/08/21 to 12/08/2021 .

14.	**Application:** Applications should be sent via e-mail to lasige-candidaturas@listas.di.ciencias.ulisboa.pt, with the subject: 922.V3 – 1 BII Verão com Ciência, by attaching the following documents:
   a.	Curriculum vitae **– CV may be provided by pdf or through the CIÊNCIAVITAE system**;
   b.	Certificate of completion of previous degree;
   c.	and other documents considered 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.

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