

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

1 Research Fellowship in Special Regime (BI-RE) for a PhD Student

1 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 Self Assessment Towards Optimization of Building Energy (SATO), financed by European Union's H2020 research and innovation programme under Grant Agreement no. 957128, under the following conditions:

1. **Scientific Area:** Computer Science Engineering, Machine Learning, Cyber-Physical Systems and Internet of Things.
2. **Requirements for admission:** Portuguese nationals, foreign and stateless persons may submit applications to this selection procedure, provided they hold a Master degree in Computer Science Engineering, Machine Learning, or Dependability, and fully comply with the following requirements:
 - a) The master's degree must have been granted in the last 4 years.
 - b) Demonstrated scientific and/or professional experience in the areas of Cyber-Physical Systems, Internet of Things and Machine Learning.
3. **Additional optional skills and qualifications:** The candidate should also have experience in programming languages and tools, such as C/C++, Python, Java, TensorFlow, Pytorch, Cloud Computing Frameworks, and Systems Integration and Engineering.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrolment in the PhD program in Informatics at the Faculty of Sciences – University of Lisbon.
5. **Work plan:** Scope of work: Machine learning tools for improving data quality and dependability in IoT applications.
The work plan objectives to accomplish are:
 - a) literature review, developing classifiers for the detection of potential vulnerabilities;
 - b) to achieve the robustness of machine learning models against adversarial agents;
 - c) to implement privacy preserving Byzantine tolerance for a distributed threat intelligence platform;
 - d) The selected candidate must apply and enrol in the PhD program in Informatics at the Faculty of Sciences - University of Lisbon. The PhD program should start in 2021, with a maximum duration of 4 years (Please contact cdrosa@fc.ul.pt for more information about this requirement).The work plan seeks to contribute to the tasks T2.1, T2.4, T3.1, T3.6, T3.7, T3.8, T4.4, T4.5, T6.1, T6.2, T6.3, T6.4 and T6.5 within the framework of work packages WP2, WP3, WP4 and WP6 of the SATO project.
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](#)).



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7. **Place of work:** The work will be developed at the facilities of Research Center LASIGE, in Faculty of Sciences, University of Lisbon, Campo Grande, Lisbon, Portugal under the scientific supervision of Professor Pedro Miguel Frazão Fernandes Ferreira.
8. **Fellowship duration:** This position is initially opened for 12 months and will begin on July 2021. The fellowship contract may be potentially renewed for until the end of the project, 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 € 1297,30 ,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. Additionally, the research grant includes the costs with the annual tuition fees.
10. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV (70%), motivation letter (30%) and possibly, a selection interview. If the jury chooses to carry out the selection interview, it will be to the 3 (three) candidates with the best classification in the curriculum evaluation, and the final evaluation will as follows: 60% for the curriculum evaluation, 20% for the motivation letter and 20% for the selection interview.
11. **Selection Committee:** Professor Pedro Miguel Frazão Fernandes Ferreira (President), Professor António Casimiro Ferreira da Costa (1st Member of the jury), Professor José Cecílio (2nd Member of the jury), Professor Alysson Neves Bessani (1st Alternate Member of the jury) and Professor Bernardo Ferreira (2nd Alternate Member of the jury).
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 18/06/2021 to 28/06/2021 .
14. **Application:** Applications should be sent via e-mail to cdrosa@fc.ul.pt, by attaching the following documents:
- Curriculum vitae – CV may be provided in PDF format or through the [CIÊNCIAVITAE](#) system;
 - Certificate of completion of previous degree;
 - Motivational letter;
 - 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



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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 during 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>.

