

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

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

1 Research Fellowship(s) under Special Regime (BI-RE) is(are) open at the **FCiências.ID – Associação para a Investigação e Desenvolvimento de Ciências**, for the project/R&D institution SATO - Self Assessment Towards Optimization of Building Energy, and SMART2B - Smartness to existing Buildings, funded by European Union's H2020 research and innovation programme under Grant Agreement no. 957128 and 101023666, respectively, under the following conditions:

1. **Scientific Area:** Computer Science Engineering
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, 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 and Machine Learning including Deep 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:** The work plan includes the following activities:
 - a) Literature review on reinforcement learning and on buildings energy resources optimisation;
 - b) Development of an aggregated control system for the optimisation of building's energy resources, using reinforcement learning;
 - c) Deployment of the developed control system in project pilots;
 - d) Execution of test experiments in project pilots;
 - e) Evaluation of results;
 - f) Thesis writing.The work plan seeks to contribute to the tasks T3.5, T3.6, T3.7, T4.1, T4.2, T4.3, T4.4, T4.5, T5.1, T6.1, T6.2, T6.3, T6.4, T6.5 within the framework of work packages WP3, WP4, WP5 and WP6 of the SATO project, and to the tasks T1.2, T2.2, T3.2, T3.3, T3.4, T3.5, T5.3, T5.5 e T5.6 within the framework of the work packages WP1, WP2, WP3 and WP5 of the SMART2B 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 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 6 months and will begin on September 2021. The fellowship contract may be potentially renewed for until the end of the SMART2B project, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P. and FCiências.ID Fellowship Regulation.
9. **Monthly allowance:** The fellowship amounts to € 1526,47, according to [table values](#) of the FCiências.ID Fellowship Regulation. 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
This research grant includes annual tuition fees divided in the 12 months. It is the student responsibility to pay 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 be 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 Vinicius Vielmo Cogo (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 09/08/2021 to 17/08/2021 .
14. **Application:** Applications should be sent via e-mail to cdrosa@fc.ul.pt, referring in the e-mail subject the ID SATO-BIRE-202107, 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. Motivational letter;
d. and other documents considered relevant.
e.
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



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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>.

