

## 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 Optimisation of Building Energy, and SMART2B – Smartness to existing Buildings, financed 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 Bachelor or a Master degree in Computer Science Engineering before the deadline for application (see point 13 of this call), and fully comply with the following requirements:
  - a) The bachelor or 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. Additionally, experience in appliances data acquisition and signal processing applications.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrollment in the PhD program in Informatics at the Faculty of Sciences – University of Lisbon.
5. **Work plan:** including the following activities:
  - a) Literature review on signal processing, machine learning for time-series forecasting, and on appliances energy assessment;
  - b) Development of real-life energy assessments for home appliances;
  - c) Deployment of the developed assessments 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 T2.4, T3.1, T3.2, T3.5, T3.8, T4.4, T4.5, T6.2, T6.4, T6.5 within the framework of work packages WP2, WP3, WP4 and WP6 of the SATO project, and to the tasks T1.2, T2.1, T2.3, T2.5, T3.1, T3.4, T3.6, T5.2, T5.3, T5.4, T5.5 and 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 16<sup>th</sup> December: <https://dre.pt/application/file/a/127230968>, or at the FCT website:



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<https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>), and FCIências.ID Fellowship Regulation, as approved on 12<sup>th</sup> May 2020 (available at [Regulamento de Bolsas de Investigação Científica da FCIências.ID](#)).

7. **Place of work:** The work will be developed at 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 in December 2021. The fellowship contract may be potentially renewed for until the end of the project SMART2B.

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 of the jury), Professor Guilherme Carvalho Canhoto Carrilho da Graça (Effective member), Professor José Cecílio (Effective member), Professor António Casimiro (Substitute member) and Professor Vinicius Vielmo Cogo (Substitute 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 19/11/2021 to 29/11/2021 .

14. **Application:** Applications should be sent via e-mail to [cdrosa@fc.ul.pt](mailto:cdrosa@fc.ul.pt), referring in the e-mail subject the ID SATO-BIRE-202114, 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. 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](mailto: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 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>.

