

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

1 Research Fellowship in Special Regime (BI-RE) for 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, Cybersecurity, Machine Learning
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, Cybersecurity, Machine Learning, or similar areas, 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 Cybersecurity and/or Machine Learning.
 - c) The candidate must also be enrolled in the 3rd cycle of higher education (PhD).
3. **Additional optional skills and qualifications:** The candidate must also have experience in programming languages and tools, such as C/C++, Python, Java, TensorFlow, and Pytorch.
4. **Work plan:** 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.The work plan is included in tasks T1.3, deliverable 1.3; T2.1, deliverable 2.1; T2.4 deliverable D2.5. It also includes participation in the preparation of the tasks T3.8, Deliverable 3.8; T4.5, Deliverable 4.5; and T6.5, Deliverable 6.6; as well as in the preparation of Work Packages 1, 2, 3, 4, and 6 of the SATO project. The candidate contribution is related to the development of a "Robust Deep Learning based CyberThreat Intelligence" tool for the protection of SATO platform IT infrastructure.
5. **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](https://www.fciencias.id/regulamento-de-bolsas-de-investigacao-cientifica-da-fciencias.id)).
6. **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.
7. **Fellowship duration:** This position is initially opened for 6 months and will begin on April 2021. The fellowship contract may be potentially renewed 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.



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8. **Monthly allowance:** The fellowship amounts to € 1521,47. 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.

9. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV and possibly, a selection interview. If the selection interview is not carried out, the final evaluation will be obtained with a weighting of 100% in the curriculum evaluation. If the jury chooses to carry out the selection interview, it will be carried out to the 2 (two) candidates with the best classification in the curriculum evaluation. In the event that the selection interview is carried out, the final evaluation will be obtained taking into account the following considerations: 50% for the curriculum evaluation and 50% for the selection interview.

10. **Selection Committee:** Professor Pedro Miguel Frazão Fernandes Ferreira (President), Professor Alysson Neves Bessani (1st Member of the jury), Professor Bernardo Ferreira (2nd Member of the jury), Professor António Casimiro Ferreira da Costa (1st Alternate Member of the jury) and Professor Vinícius Vielmo Cogo (2nd Alternate Member of the jury).

11. **Publication/notification of results:** All the candidates will be notified by e-mail, sent by the call holder, with the selection meeting minutes enclosed.

12. **Deadlines:** This call for applications is open from 25 March 2021 to 05 April 2021 .

13. **Application:** Applications should be sent via e-mail to pmf@ciencias.ulisboa.pt, by attaching the following documents:

- a. Curriculum vitae;
- b. Certificate of completion of previous degree;
- c. Proof of registration in the study cycle that confers the requested degree in this call;
- d. and other documents considered relevant

14. **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 during the fellowship contractualization.



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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>.

