

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

### 1 Research Fellowship for Master 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 “Admorph - Towards Adaptively Morphing Embedded Systems”, under Grant Agreement no. 871259, financed by European Union’s H2020 Research and Innovation Programme, under the following conditions:

1. **Scientific Area:** Informatics / Computer Science
2. **Requirements for admission:** Enrolled in 2nd year of Masters in thesis work. Experience with Software Development. Knowledge in the areas of computer security, distributed systems, machine learning and cyber-physical systems.
3. **Additional optional skills and qualifications:** Skills in security and dependability of protocols and solutions for distributed systems; analysis and discovery of security vulnerabilities; knowledge of techniques for enhancing the security of distributed systems.
4. **Contracting requirements:** Presentation of the academic qualifications and/or diplomas. Enrollment in a Master degree in Computer Engineering, Informatics, Information Security or Data Science.
5. **Work plan:** The objective of this fellowship is to develop a time-safe communication protocol for cooperative autonomous driving systems, to be integrated in a system for control take-over in CPSoS. The work plan will encompass: a) Review of the state-of-the-art in protocols for real-time coordination in distributed systems; b) Study of simulation tools for autonomous driving systems; c) Design and implementation of a protocol to support real-time cooperation, including a timing failure monitor for time-safe operation; d) Evaluation of the solution in a simulation environment. The work plan will contribute to Admorph Task 4.5 within the framework of work package 4.
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: <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 the Research Center LASIGE, in Faculty of Sciences, University of Lisbon, Campo Grande, Lisbon under the scientific supervision of Professor António Casimiro Ferreira da Costa.
8. **Fellowship duration:** This position is initially opened for 6 months and will begin in September 2022. The fellowship contract may be potentially renewed for until the end of the project months, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P. and FCiências.ID Fellowship Regulation.



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9. **Monthly allowance:** The fellowship amounts to € 875,98, 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.

10. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV (70%) and 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, for clarifications and improved explanations of curricular elements. 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 António Casimiro Ferreira da Costa (President of the jury), Professor Nuno Fuentecilla Maia Ferreira Neves (Effective member), Professor José Cecílio (Effective member), and Professor Pedro Miguel Frazão Fernandes Ferreira (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 27/07/2022 to 04/08/2022 .

14. **Application:** Applications should be sent via e-mail to [cdrosa@fc.ul.pt](mailto:cdrosa@fc.ul.pt), referring the ID Admorph/2022/01, 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. Motivation 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

**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>.

