

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

### One doctoral research fellowship

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 “ESC4SHI – Efficient Computing Simulation for Sea, Health and Industry”, project no. POCI-01-0145-FEDER-02811 and PTDC/MAT-APL/28118/2017, financed by national funds by FCT / MCTES (PIDDAC) under the programme Fundo Europeu de Desenvolvimento Regional (FEDER) in all domains, under the following conditions:

1. **Scientific Area:** Civil Engineering.
2. **Requirements for admission:** Applicants must (1) hold a Master’s degree in Civil Engineering or related area, compatible with the project requirements and (2) be enrolled in a PhD in Civil Engineering or related area when signing the contract. Applicants with foreign degrees shall have the degree recognized in Portugal, under the terms of Decree-Law nr. 66/2018, August 16th.
3. **Additional optional skills and qualifications:** Preference will be given to candidates with master degree specialized in Structures and competencies working with OpenSees.
4. **Work plan:** The ESC4SHI project, carried out in partnership with the University of Minho, University of Coimbra and University of Lisbon, is a project promoting the collaboration between the Mathematic and its application in the scientific areas of Sea, Health, and Industry. Task 6 of the project aims to study the behavior of coastal structures due to the tsunami action with tectonic origin. The selected fellow will collaborate in the FEM numerical modelling and analysis of coastal protection structures. The objective is to assess the structural performance considering the influence of environmental and structural variables. The different scenarios to be established will consider and combine different: 1) loading patterns: (a) tsunami or (b) cascading earthquake and tsunami; 2) magnitudes of the tsunamigenic event; 3) distance of the event’s source; 4) directivity of the tsunami propagation relatively to the orientation of the coastal protection structure; and 5) complexity of the numerical models and respective analysis. At the end, this study will provide useful insights regarding the required features of a structure serving as coastal protection against a tsunami triggered by an earthquake.
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 available at <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf>.
6. **Place of work:** The work will be developed at the Civil Engineering Research and Innovation for Sustainability (CERIS), Instituto Superior Técnico (IST), in Lisbon under the scientific supervision of Professor Maria Ana Baptista.
7. **Fellowship duration:** This position is initially opened for 4 months and will begin on julho de 2020, 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 € € 1.064,00 ,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

9. **Evaluation and selection process:** Candidates will be assessed by the quality of their CV (60%), Motivation letter (30%) and Interview (10%).

10. **Selection Committee:** The jury is composed by: President of the jury: Maria Ana Baptista (Coordinate Professor), Members of the jury: Mário Lopes (Associate Professor) and Stephane Clain (Full Professor), Alternate member: Carlos Sousa Oliveira (Jubilee full professor).

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 04/06/2020 to 19/06/2020 .

13. **Application:** Applications should be sent via e-mail to [mavbaptista@gmail.com](mailto:mavbaptista@gmail.com), 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. Motivation letter.

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](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 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>.