

(BL176/2021-IST-ID)

### Research Studentships (PhD students)

Applications are open for one Research Studentship, within the framework of the project BEStMaintenance\_LowerRisks/IST-ID, (PTDC/ECI-CON/29286/2017), financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Civil Engineering.

**Admission Requirements:** *To be enrolled at a PhD.*

**Workplan:** Research in maintenance of building envelope elements, through the creation of an IT tool for the planning and management of maintenance plans. Definition of maintenance strategies, based on knowledge of the evolution of the degradation of elements over time, and their service life, establishing a set of strategies and plans to be adopted during the life cycle of the element, which promote its durability and sustainability. Analysis of the life cycle costs (LCC) of the different maintenance strategies proposed. Structuring insurance policy models, evaluating different risk premiums based on the characteristics of the owners and the insured object.

**Legislation and Regulations:** Statute of Scientific Research Fellow, approved by Law nr. 40/2004, of August 18, as worded by Decree-Law nr. 123/2019, of August 28; FCT Regulation for Research Studentships and Fellowships, available on <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf> and <https://dre.pt/application/file/a/127230968>.

**Workplace:** The work will be developed at CERIS (Civil Engineering Research and Innovation for Sustainability) of Instituto Superior Técnico, under the scientific supervision Dr. Ana Filipa Ferreira da Silva Cigarro Matos.

**Duration:** The research fellowship will have the duration of four months. It's expected to begin in December of 2021, and the contract is not renewable.

**Monthly maintenance allowance:** According to the values for Research Fellowships awarded by FCT in Portugal (<http://www.fct.pt/apoios/bolsas/valores>), the amount of the monthly maintenance allowance is €1104.64, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** The selection methods will be the following: curriculum evaluation (70%) and individual interview (optional, 30%). The curriculum evaluation will be carried out according to the following components: classification in the master's in civil engineering, Architecture or similar (40%); experience in the preparation of scientific papers, published/accepted in an international journal indexed ISI/Scopus (40%); previous experience in research projects (10%); experience in the field of durability, maintenance and conservation of the built heritage (10%). In case of a tie, the top two candidates in the curriculum evaluation will be selected for the interview (30%). The final evaluation results from the sum of the curricular evaluation and the interview evaluation. If none of the candidates have the appropriate profile, the scholarship will not be awarded.

**Composition of the selection Jury:** Professor Jorge de Brito, Professor Inês Flores Colen and Dr. Ana Filipa Ferreira da Silva Cigarro Matos.

**Announcement/ notification of the results:** The final evaluation results will be communicated to all applicants by email.

**Deadlines and procedures of complaint and appeal.** A complaint may be lodged from the final decision within 15 working days, or an appeal to the Executive Board of IST-ID within 30 working days, both counted from the respective notification

**Application deadline and formalization:** The call is open from 19 November until 3 December 2021.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<http://drh.tecnico.ulisboa.pt/bolseiros/formularios/> ); ii) *Curriculum Vitae*; iii) academic degree certificate, where applicable; iv) proof of enrollment at an academic degree course (Master, Integrated Master or PhD) or at a course that does not award an academic degree; v) motivation letter; vi) (for holders of Bachelor or Master degrees who are enrolled at a course that does not award an academic degree) declaration on honour that the applicant does not exceed with this contract an accumulated period of two years in this type of studentship, continuously or with interruptions.

Applications must be submitted to the email: [bolsas@drh.tecnico.ulisboa.pt](mailto:bolsas@drh.tecnico.ulisboa.pt)