

Research Studentships for PhD students

Applications are open for one 1 Research Studentship, within the framework of project Eco-efficient recycled cement compressed earth blocks – Eco+RCEB, PTDC/ECI-CON/0704/2021, of CERIS – Civil Engineering Research and Innovation for Sustainability of Instituto Superior Técnico, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Civil Engineering, Architecture and Georesources

Admission Requirements: Master in Civil Engineering or Mining/Georesources Engineering. To be enrolled at a PhD (at the date of signature of the scholarship agreement)

Academic degrees obtained in foreign countries shall be registered by a Portuguese institution, according to the Decree-Law nr. 66/2018, of August, 16th, and the Ordinance nr. 33/2019, of January, 25th. It is mandatory to present the certificate to sign the contract. More information is available on: <https://www.dges.gov.pt/pt/pagina/reconhecimento?plid=374>.

Workplan: Production and characterisation of more eco-friendly earth masonry mortars for compressed stabilised earth blocks (CSEB) joints, by using low embodied energy recycled cement (RC) from concrete waste. Mix design and production of earth mortars, with and without incorporation of construction and demolition waste, and with cement replaced with different RC contents. Optimization takes into account the minimum requirements of applicability and service performance of masonry mortars, as well as their adhesion and compatibility with CSEB. Physical, mechanical and durability characterization of earth mortars, focusing on water resistance. Life-cycle cost and life-cycle assessment of earth mortars and CSEB. Study development aiming for a PhD degree.

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, Department of Civil Engineering, Architecture and Georesources of Instituto Superior Técnico, under the scientific supervision of Prof. José Alexandre de Brito Aleixo Bogas.

Duration: The research fellowship will have the duration of 12 months. It's expected to begin in September 2022, and may be eventually renewed up to the maximum of 36 months. When the academic degree or diploma is awarded during the term of the scholarship contract, it can be concluded under the established contractual terms.

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 € 1144.64, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection method will be the curriculum evaluation. The jury may call the two or three best-selected candidates for an individual interview. In this case, the curriculum evaluation and the individual interview will have a weighting factor of 60% and 40%, respectively. Within Curriculum evaluation, the following aspects will be evaluated: academic evaluation; the ranking of the school unit, wherein the MSc degree was obtained; research experience in experimental working and in analytical techniques for materials characterization. If none of the candidates demonstrate a suitable profile, the studentship will not be awarded.

Composition of the selection Jury: Professors José Alexandre de Brito Aleixo Bogas, Maria da Glória de Almeida Gomes e Manuel Francisco Costa Pereira.

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 the July 18 until August 18, 2022.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<https://ist-id.pt/concursos/bolsas/>); ii) Curriculum Vitae; iii) academic degree certificate, where applicable; iv) declaration on honour that the applicant intends to enrol an academic degree course up to the date of signing the contract (Doctoral programme at Instituto Superior Técnico, in the scientific area of the scholarship); v) motivation letter with the indication of a referee, professor or researcher, to be contacted in case of need.

Applications must be submitted to the email: jose.bogas@tecnico.ulisboa.pt