

**Research Studentships (for Master or Integrated Master students)**

Applications are open for one Research Studentships, within the framework of project PTDC/ECI-EGC/1086/2021, associated to project CALCITE - Fixation mechanisms and durability of biocementation treatment of soils. Application to a real slope to prevent ravine development, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Civil Engineering/Geotechnics

**Admission Requirements:** *Have bachelor degree in Civil Engineering and be enrolled at one course to get a Master degree in Civil Engineering.*

**Workplan:** The work predicted includes performing laboratorial tests to study the treatment of joints by biocementation considering sealing and strength recovery achieved. It presupposes the writing of a MSc thesis and a scientific paper in English to be submitted to an international conference.

**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 in IST (Lisbon), under the scientific supervision of Professor Rafaela Cardoso.

**Duration:** 3 months, eventually renewable until 5 months, including the duration of the initial contract. It is expected to begin in May 2024.

**Monthly maintenance allowance:** According to the values for Research Fellowships awarded by FCT in Portugal ([https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM\\_atualizacao-2024.pdf](https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf)), the amount of the monthly maintenance allowance is €990.98, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** The selection methods will be through curriculum evaluation (100%) carried out according to the following components: final classification of the Bachelor (30%), motivation letter where past experience on experimental work and on Geotechnics must be explained (20%), average grades in the units of Geotechnics from bachelor and master degrees, such as Soil Mechanics, Geotechnical Structures I and II, and Characterization and Observation in Geotechnics, or equivalent (20%) and the availability of the student to write his/her Master thesis within the project (30%). If an interview is carried out, in the event of a tiebreaker, the weighting will be 70% for the curriculum evaluation and 30% for the interview. If none of the candidates have the appropriate profile, the scholarship will not be awarded.

**Composition of the selection Jury:** Professors Rafaela Cardoso, Fernando Simões and Rui Carrilho Gomes.

**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 April 19 until May 2, 2024.

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) proof of enrollment at an academic degree course (Master, Integrated Master); v) motivation letter.

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