

Research Studentships (for students of a course that does not award an academic degree)

Applications are open for one Research Studentship, within the framework of project CALCITE – Mecanismos de fixação e durabilidade do tratamento de solos por biocimentação. Aplicação a um talude real para evitar ravinamento, PTDC/ECIEGC/1086/2021, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Civil Engineering

Admission Requirements:

a) to hold a master degree and be enrolled at a course that does not award an academic degree and it is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units;

b) not to exceed with this contract, including the possible renovations, an accumulated period of two years in this type of studentship, continuously or with interruptions.

Workplan: Perform image treatment of photographs of the surface of a real soil slope treated by biocementation to avoid the formation of ravines and perform triaxial tests of soil samples from the same slope. Includes data treatment and writing a report in English.

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, Laboratório de Geotecnia of the Departament of Civil Engineering of Instituto Superior Técnico, under the scientific supervision of Professor Rafaela Cardoso.

Duration: The research fellowship will have the duration of 3 months. It's expected to begin in March 2024, and may be eventually renewed up to the maximum of 10 months.

Monthly maintenance allowance: According to the values for Research Fellowships awarded by FCT in Portugal (https://www.fct.pt/wp-content/uploads/2023/02/Tabela-de-Valores-SMM_2023.pdf), the amount of the monthly maintenance allowance is €1199,64, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The selection methods will be through curricular evaluation (100%), with the respective weight: Final grade in the Master on Civil Engineering (20%), motivation letter (10%), geotechnical knowledge on soil improvement techniques (30%), knowledge on image treatment techniques (10%), experience on laboratorial work (20%), knowledge on English (10%). 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, João Ferreira 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 January 24 until February 6, 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; iv) proof of enrollment at a course that does not award an academic degree; v) motivation letter; vi) 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: rafaela.cardoso@tecnico.ulisboa.pt