

(BL112/2021-IST-ID)

Research Studentships (Master or Integrated Master students)

Applications are open for 1 Research Studentship, within the framework of RInoPolyCrete (PTDC/ECI-CON/29196/2017), financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

Scientific Area: Civil Engineering - Construction

Admission Requirements: Bachelor in Engineering Sciences – Civil Engineering and to be enrolled Master degree

Workplan: Evaluation of the potential for alkali-activating municipal solid waste incinerator bottom ashes and electric arc furnace slag. Study the influence of recycled aggregates from construction and demolition waste on the properties of alkali activated bottom ashes and electric arc furnace slag in order to optimize the environmental performance of the resulting material. Develop proposals to adapt existing standards to the properties of alkali-activated materials, allowing their commercialization and safe use as an alternative to cement.

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, Instituto Superior Técnico, under the scientific supervision of Professor Doutor Jorge Manuel Caliço Lopes de Brito.

Duration: The research fellowship will have the duration of 6 months. It's expected to begin in August 2021, and may be eventually renewed up to the maximum of 16 months.

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 € 835.98, being the payment method an option of the Fellow by Wire Transfer/Check.

Selection methods: The methods will be as follows: (1) Curriculum evaluation (70%) and (2) individual interview (30% - carried out at IST after an initial analysis of the candidates' CV). Within point (1), the following aspects will be evaluated: the ranking of the school unit, wherein the degree in Civil Engineering was obtained (50%); experience in cementitious and alkali-activated materials, mechanical performance, life cycle analysis (25%); experience in producing scientific articles in high quality journals (25%). If none of the candidates demonstrate a suitable profile, the fellowship will not be awarded.

Composition of the selection Jury: Professor João Pedro Ramôa Ribeiro Correia, Professor Jorge Manuel Caliço Lopes de Brito and Prof. José Dinis Silvestre

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 7 until 20 July 2021.

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: rui.v.silva@tecnico.ulisboa.pt