

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

Applications are open for one Research Studentship), within the framework of BIM2ESCAPE/CERIS project UIDB/04625/2020, financed by national funds through FCT/MCTES (PIDDAC), under the following conditions:

**Scientific Area:** Civil Engineering and Mining

**Admission Requirements:**

- a) Be enrolled in a master's degree in Civil Engineering, structures profile;
- b) Grade in LEC equal to or greater than 14;
- c) Solid knowledge in GIS.

**Workplan:** Development of a methodology for generating escape routes inside a building, modeled in a BIM environment, based on the typification of seismic damage in masonry structures. The main tasks are:

- d) a) Literature review;
- e) b) Identification of methodologies for exporting geometry from BIM format to GNC format;
- f) c) Identification of methodologies to link cost functions to GNC representations;
- g) d) Generation of evacuation routes based on different seismic damage scenarios.

**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 IST/CERIS of IST, under the scientific supervision of Ana Paula Falcão

**Duration:** The research fellowship(s) will have the duration of 5 months. It's expected to begin in August/2022, and may be eventually renewed up to the maximum of 8 months (it is mandatory to specify if the contract is renewable or not).

**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 € 875, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** curricular evaluation (100%) or curricular evaluation (50%) and interview (50%) for situations of more than one candidate with the same curricular classification

**Composition of the selection Jury:** Ana Paula Falcão, Alexandre Gonçalves and Rita Bento

**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 July 18 until July 29, 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) proof of enrollment at an academic degree course (Master, Integrated Master); v) motivation letter;

Applications must be submitted to the email: [ana.p.falcao@tecnico.ulisboa.pt](mailto:ana.p.falcao@tecnico.ulisboa.pt)