

1 Research Grant Announcement (M/F)

Call open for applications for a research grant within the framework of the project RETIME: Urban Adaptation and Alert Solutions for a TIMEly (re)Action, Grant Agreement number 101147113, financed by the European Commission, in the scope of the Horizon Europe Framework Programme, under the following conditions:

Scientific Area: Civil Engineering

Admission requirements: Candidates who cumulatively meet the following two requirements may apply for this grant:

Requirement 1:

- Be a student enrolled in a doctoral program in the area of Civil Engineering, a requirement to be duly proven at the time of signing the contract.

or

- To be enrolled in a non-academic degree course integrated in the educational project of a higher education institution, developed in association or cooperation with one or more R&D units, a requirement to be duly proven at the time of signing the contract.

and

Requirement 2:

- Hold a master's degree in civil engineering or related field.

If the degree has been awarded by a foreign higher education institution, it must comply with the provisions of the Decree-Law no. 66/2018, of august 16th, and any formalities established there must be fulfilled until the time of signing the contract.

The present notice is published pending the signature of the Grant Agreement of the project, therefore, for this reason, and for reasons of interest of the institution, by means of a duly reasoned act, this selection process may be terminated until before the notification of the selection minutes to the applicants, within the scope of the hearing of the interested parties.

Activity Outline:

The scholarship holder will participate in R&D activities within the scope of project UIDB/04708/2020 that fall within the area of Civil Engineering, contributing to the following activities:

Development of a modelling framework focussed on the earthquake performance of buildings. The framework will address different reinforced concrete building typologies to assess the impacts of different earthquake scenarios and develop strengthening/mitigation solutions.

Implementation of the framework in a two-step approach. The first will include the assessment of a building's current situation (namely in terms of structural safety) while the second will assess its enhanced performance following the implementation of the strengthening/mitigation solutions that need to be combined with energy efficiency measures.

- Validation of this framework for a set of case studies.
- Production of a technical report and publications about the work that is carried out.

Legislation and regulations: Law Nº. 40/2004, of 18th August, in its current wording (Statutes of Scientific Research Fellow) and Regulation of Research Grants of the University of Porto.

Workplace: The work will be developed at the Department of Civil Engineering of the Faculty of Engineering of the University of Porto (FEUP) under the scientific supervision of Professor Xavier Romão.

Grant duration: Initial duration of **12 months**, with the predicted starting date in **June 2024**, on an exclusive basis, eventually renewable but never exceeding the project duration.

If it is not possible to ensure the duration of 12 months estimated in the previous paragraph, this duration will be adjusted according to the end date of the project, provided that the minimum duration of 3 consecutive months is guaranteed by paragraph 2 of article 10 of the Research Regulation of Research Grants of University of Porto.

The eventual renewal of the scholarship will be carried out as determined in paragraph 2 of article 10 of the Research Regulation of Research Grants of the University of Porto.

Stipend: The grant stipend amounts to 1.259,64€ according to the table of values of the Regulation of Research Grants of the University of Porto. The payment will be made by bank transfer.

Selection procedure:

The curriculum of the candidates (60%) will be evaluated based on the merit of the candidate, and the following factors will be assessed:

- Academic training (Master in Civil Engineering or related area – 10 points; Others Masters – 2 points)
- Verified professional experience in the area of structural design of reinforced concrete structures – 5 points;
- Verified experience with Matlab and Python programming languages– 5 points; with only one of those languages – 3 points; with other languages – 1 point;

The curriculum of each candidate will be evaluated on a 1-20 points scale. Candidates under 18 points in the curricular evaluation will not be invited for the interview.

In the interview (40%), topics related to the work plan, experience, and the candidate's CV will be discussed with the invited candidates.

The scholarship will only be awarded if all of the candidates achieve a minimum final score of 18 points.

Selection Jury:

President: Professor Xavier das Neves Romão

Effective member: Professor José Miguel de Freitas Castro



Effective member: Professor António José Coelho Dias Arêde

Supplementary member: Professor Humberto Salazar Amorim Varum

Supplementary member: Professor João Paulo Sousa Costa de Miranda Guedes

Advertisement of final decision: The results of the evaluation will be released to the candidates by email to the email address indicated in the application process.

Deadline for applications and form of presentation of the applications:

The call is open from **12-04-2024 to 26-04-2024** (until 23h59m GMT).

Applications must be formalized by email to xnr@fe.up.pt and to recursoshumanos@fe.up.pt, clearly stating the reference **FEUP-RETIME-EST** and including the following pdf documents: Motivation letter, Copy of certificates evidencing academic degree (referring to the classification of each separated or integrated degree), detailed Curriculum Vitae; and other documents considered relevant by the applicant.

The preferred saving format is the Portable Document Format (.pdf) to ensure that all documents can be read.