

English version

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Unique identifier: 78e5e5d6-49f9-40dc-b8f6-8c53a6aa9314

English

1. Descrição do cargo/posição/bolsa
1. Job description

Job:
Research Grant

Job/Fellowship Reference: STAND4HERITAGE-UM.6.19

Main research field: Engineering

Sub research field: Civil engineering

Job summary:

A call for a research grant is open within the project STAND4HERITAGE (Project Number: 833123) - New Standards for Seismic Assessment of Built Cultural Heritage, financed by the European Commission (European Research Council) through its research and innovation Horizon 2020.

Job description:

A call for a research grant is open within the project STAND4HERITAGE (Project Number: 833123) - New Standards for Seismic Assessment of Built Cultural Heritage, financed by the European Commission (European Research Council) through its research and innovation Horizon 2020, with the following conditions:

Scientific Area:

Civil Engineering

Admission requirements:

Master in Civil Engineering or similar field, with a final average higher or equal to 70%.

Work plan

The work will address numerical or experimental approaches for the out of plane behavior of masonry structures, including processing of the seismic signal, shaking table

testing, analytical tools, numerical modeling or design concepts. For this purpose, the activities will include some of the following:

1. Selection and study of appropriate seismic signals;
2. Performing shaking table testing;
3. Development of intermediate approaches by comparison with advanced numerical approaches.
4. Validation of experimental shaking table testing;
5. Calibration of “backbone” models for out of plane loading;
6. Fragility analysis.

Legislation and applicable norms

Law No. 40/2004, August 18 (Statute for Scientific Research Grant Holder), with the changes introduced by the Decree-Law n° 202/2012 of August 27, Law no° 12/2013, January 29, and Decree-Law 89/2013 of July 9, together with the FCT Regulation for Research Studentships and Fellowships from Fundação para a Ciência e a Tecnologia, I.P. (<http://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>).

Workplace

The work will be developed in ISISE at University of Minho, in Guimarães, with the scientific supervision of Professor Paulo José Brandão Barbosa Lourenço.

Duration of the grant

The grant will have a duration of 12 months, with the beginning planned for March 1, 2020. The grant contract may be renewed until the end of the project and/or applicable legislation.

Amount of the monthly grant

The amount of the grant is 1200 €/month (tax free). The grant holder will benefit from a group insurance on personal accidents.

Selection method

The selection method will include the following parameters: **CE** (Curricular evaluation) and **SI** (Selection interview, to be carried out in English).

The final classification (FC) will be given in the scale 0 to 20, using the formula:

$$\mathbf{FC = 50\% CE + 50\% SI.}$$

The criteria used for the parameters are the following:

For CE:

- a) evaluation of the academic performance, including namely higher education diplomas and scientific publications (weight of 70%);
- b) experience in seismic engineering (30%);

For SI:

- a) Ability to express reasoning (25%)
- b) Critical sense (25%)
- c) Motivation and commitment (25%)
- d) Mastering of the English language (25%)

Composition of the selection committee

President: Paulo José Brandão Barbosa Lourenço.

Effective Members: Daniel Oliveira, Associate Professor, and Graça Vasconcelos, Assistant Professor, both from the Department of Civil Engineering from University of Minho.

Substitute Members: Jorge Branco, Assistant Professor, and José Matos, Assistant Professor, ambos both from the Department of Civil Engineering from University of Minho.

Result publication/notification

The final results of the selection process will be sent to the candidates by e-mail.

Call period and applications

The call is opened from November 21, 2019 to January 15, 2020.

Applications should be formalized with an application letter including the following documents:

- Curriculum Vitae;
- Certificates of all higher education degrees (an English notarized translation must be given in case the selection committee is unable to understand the document, e.g. if Latin or Roman script is not used in an original certificate);
- MSc thesis (or theses if more than one);
- Publications;
- Other documents that the candidate considers relevant for the analysis of the

application.

The selection committee reserves the right of not attributing the grant described in the present call, as a result of the evaluation of the applications and their adequacy for the project objectives.

The selected candidate should enroll in the PhD programme in Civil Engineering at University of Minho (www.pdec.civil.uminho.pt) in the first application period (typically January and August of each year) after the start of the grant and pay the associated tuition fees in a single or multiple installments (currently 2750 euro/year). The selected candidate, if having academic higher education degrees obtained outside Portugal, is responsible for applying for recognition of the foreign higher education degrees in Portugal (BSc and MSc) and the conversion to the grades to the Portuguese grading system within 3 months of starting of the grant.

The applicants with academic higher education degrees obtained abroad are exempted, at the application and selection moments, from providing the recognition of their higher education degrees in Portugal and the conversion of the grades to the Portuguese grading system.

Applications should be sent exclusively by email to the e-mail address: pbl@civil.uminho.pt

Prof. Paulo B. Lourenço
Departamento de Engenharia Civil
Universidade do Minho
Campus de Azurém
P-4800-058 Guimarães
Portugal

Vacant posts: 1

Type of contract: Information not available

Job country: Portugal

Job city: Guimarães

Job company/institute: Universidade do Minho

Application deadline: 15 Janeiro 2020
(The Application's deadline must be confirmed on the Job Description)

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2. Dados de contactos da organização
2. Organization contact data

Organization/institute: ISISE - Institute for Sustainability and Innovation in Structural Engineering

Address:

Universidade do Minho - Dep. de Engenharia Civil - Campus de Azurém
Guimarães - 4800-058
Portugal

Email: isise@civil.uminho.pt

Website: <http://www.isise.net>

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3. Habilitações académicas
3. Required education Level

Empty

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4. Línguas exigidas
4. Required languages

Empty

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5. Experiência exigida em investigação
5. Required research experience

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