

English version

## THE RESEARCHER'S MOBILITY PORTAL • PORTUGAL

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Home page

## For Organisations

- [Post research opportunities](#)
- [Find the ideal candidate](#)
- [List of registered organisations](#)

## For Researchers

- [Post your CV](#)
- [Find research opportunities](#)
- [Practical information](#)
- [Foreign Researchers Guide](#)
- [Useful links](#)

## Portuguese Mobility Centres

- [List and locate Portuguese Mobility Centres](#) .

## Research Landscape

- [Portuguese research landscape](#)  
Find out how research is organised in Portugal.
- [Portuguese research policy](#)  
Find out about research policy in Portugal.
- [Women in science](#)  
Find out about the situation of women scientists.

## Post Research Opportunities

Unique identifier: d9a14de1-91d0-40cf-82ad-02a24952063b

## English

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

RESEARCH GRANT FOR A PHD STUDENT

**Job/Fellowship Reference:** FERROVIA 4.0 - POCI-01-0247-FEDER-04611-UM.B2.21**Main research field:** Engineering**Sub research field:** Civil engineering**Job summary:**

A call is open to award one research grant for **PhD Students** to develop research activities within the SI I&DT Project FERROVIA 4.0 (POCI-01-0247-FEDER-04611, Lisboa-01-0247-FEDER-046111), by "Ferrovia" Consortium, and financed by European Regional Development Fund (ERDF), through the Incentive System to Research and Technological development, within the Portugal2020 Competitiveness and Internationalization Operational Program.

**Job description:**

A call is open to award one research grant for **PhD Students** to develop research activities within the SI I&DT Project FERROVIA 4.0 (POCI-01-0247-FEDER-04611, Lisboa-01-0247-FEDER-046111), by "Ferrovia" Consortium, and financed by European Regional Development Fund (ERDF), through the Incentive System to Research and Technological development, within the Portugal2020 Competitiveness and Internationalization Operational Program., in the following conditions:

**Research Field:** Civil Engineering or related field.

**Recipients:** Students of PhD Programme in Civil Engineering at the University of Minho (proof of registration should be provided at the time of the contract processing), which should be fluent in written and spoken Portuguese (both written and spoken).

The applicants to the scientific research grant (BI) should, preferentially, accomplish the following requisites:

- Master in Civil Engineering or related field. For the evaluation of the final average classification of the candidates with Bachelor and Master, it will be attributed a weight of 60% to the final classification in the Bachelor and 40% to the final classification in the Master.
- Fluent in written and spoken English.

**Eligibility criteria:** The applicants must meet the eligibility conditions indicated in the article 9<sup>th</sup> of Regulation of the research grants of the Portuguese Foundation for Science and Technology I.P (2019).

**Work plan:** The activities to be executed are the following:

- Investigation and design of solutions for safety based on sensors/equipment's to be installed in the vehicle (e.g., smart wayside clearance solution);
- Investigation and design of solutions for safety based on sensors/equipment's to be installed in the infrastructure;
- Development of a specific drone dispatch system for rail applications integrated with the rail traffic management system;
- Investigation and design of a cloud-based solution for a central security-critical event management and alerting platform;
- Investigation and design of methodologies and procedures to increase critical infrastructures resilience, based on risk analysis;
- Investigation and design of alerts and interface management platform.

**Applicable legislation and regulations:** "Estatuto do Bolseiro de Investigação", approved by Law nº 40/2004 of 18<sup>th</sup> of August, in its current form published by Decree-Law nº 123/2019 of 28<sup>th</sup> of August; Regulation of the research grants of the Portuguese Foundation for Science and Technology. (<http://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>); "Regulamento de Bolsas Regulamento de Bolsas da Universidade do Minho", published at "Diário da República n.º 119/2020, Série II de 2020-06-22"

**Work place:** The research work will be developed at the School of Engineering of University of Minho (ISISE – Institute for Sustainability and Innovation in Structural Engineering), under the scientific supervision of Professor José António Silva Carvalho Campos Matos.

**Duration of the Grant:** The grant will have the maximum duration of 12 months, beginning in December 2021, eventually renewed up to the maximum of 17 months.

**Monthly value of the grant:** The value of the grant corresponds to €1074.64, according to the pay scale for the grants funded directly by FCT, I.P. in Portugal (Appendix I - Table of monthly maintenance allowances of the FCT I.P. Research Scholarship Regulation. **Other benefits:** Voluntary Social Security reimbursement, corresponding to the 1<sup>st</sup> level of the contributory tax base (for scholarships lasting 6 months or more) and Personal Accident Insurance.

**Composition of the selection Jury:**

- José Campos Matos, Assistant Professor at UM (President)
- Helder Sousa, Researcher at UM (Effective member)
- Joaquim Tinoco, Researcher at UM (Effective member)
- José Manuel de Sena Cruz, Associate Professor at UM (Substitute member)

If the President is unavailable, he shall be replaced by the first effective member, being the first substitute member replacing the effective member.

**Criteria and procedures for the evaluation and selection:** The evaluation of applications will focus on the candidate's Merit, applying the following evaluation criteria, expressed in a scale from 0 and 5.

Candidate's Merit - MC (100%):

- a) Final classification obtained in the master (or weighting between Master and previous degree, if it is not an integrated study cycle: 60% for the Master and 40% for the Bachelor) - 50%
- b) Previous experience in the field of the project - 25%
- c) Scientific production (papers, reports, etc.) - 15%
- d) Fluency in both written and spoken English (EN) - 10%

$$MC = (a \cdot 0,50) + (b \cdot 0,25) + (c \cdot 0,15) + (d \cdot 0,1)$$

Candidates with MC less than 3.5 points are considered immediately excluded.

For candidates with MC equal to or greater than 3.5 points, the evaluation process can include an interview (IN). In this case, the interview (IN) will have a weight of 35% in the final classification, and a Candidate's Mérit (MC) will have a weight of 65% in the final classification.

The Selection Committee reserves the right to not award the research fellowship in the competition based on the evaluation results of the applicants and their suitability for the project objectives.

Documents proving the ownership of academic degrees and diplomas, or the respective recognition when they have been awarded by foreign higher education institutions, can be dispensed in the application phase, being replaced by the candidate's declaration of honor, occurring the verification of this condition only in contracting phase of the scholarship. This declaration must attest facts occurred in date prior to the application. In situations of divergence between the information contained in the declaration and the documentation delivered for the purpose of contracting the scholarship, only the information contained in the latter will be considered. If it is found that the documents proving the ownership of the academic degree and diploma, or the respective recognition under the terms of Decree-Law No. 66/2018, of 16 August, do not correspond to the classifications attributed in the evaluation of the academic path and may, consequently, changing the candidate's ranking, the scholarship will be not contracted.

Note: Candidates with foreigner academic degrees must submit a recognition of their academic degree in Portugal with a convergence of the final grade to the Portuguese scale, or a declaration of honor (described in the previous point). To the candidates that do not provide these documents, the selection committee will assign a minimum grade of 10 out of 20 to their MSc grade, for those in the same circumstances, but with two diplomas, diploma plus master, a grade of 10 (on the scale of 0 to 20) will be assigned to both diplomas.

**Dissemination of results:** The evaluation results, based on minutes, will be sent to candidates by e-mail, within 90 working days after the deadline for submission of applications.

If the result is unfavorable for the applicant, he/she has a period of 10 working days to comment, if he/she wish, in the context of a prior hearing with interested parties, under the terms of article 121 and 122 of the Administrative Procedure Code (DL nº 4 / 2015 of January 7).

**Complaint and appeal procedures:** The final results of the evaluation will be published through an ordered list (alphabetically, according to the final grade obtained), posted in a visible and public place of the hosting institution, as well as by e-mail to all applicants, attaching, for this purpose, the minutes with the deliberations of the jury.

The selected applicant must indicate, in writing, the intention to accept the grant. In case of non acceptance, the grant will be awarded to the candidate in order of final ranking.

The final decision can be contested, having 15 working days for this purpose, by sending to the President of the jury the corresponding claim. Interested parties may also submit an optional hierarchical appeal, addressed to Mr. Pro-Rector for Research and Projects, Professor Doctor Filipe Vaz.

**Application deadline and form of submission of applications:** The call is open from 12/02/2021 to 25/02/2021.

Applications must be made through an **application letter** together with the following documents: **Curriculum Vitae, certificates of graduation degrees with grades (or additional transcript of grades) or a Declaration of Honour; document proving enrolment in PhD (if applicable at the date of application); letter of interest.**

All application must be submitted by email to the following address: [hssousa@civil.uminho.pt](mailto:hssousa@civil.uminho.pt) and [jtinoco@civil.uminho.pt](mailto:jtinoco@civil.uminho.pt), with the following subject: "**FERROVIA 4.0 - POCI-01-0247-FEDER-04611-UM.B2.21**".

**Non-discrimination and equal access policy:** The University of Minho actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, beneficiary, disadvantaged or private of any right or exemption from any duty owing, in particular, to ancestry, age, sex, sexual orientation, marital status, family status, economic situation, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs and trade union membership.

Cofinanciado por:



**Declaração de Honra****Habilitações académicas**

Eu, **(nome)**, candidato(a) à vaga para atribuição de uma (tipo de bolsa), no âmbito do projeto **(nome ou referência do projeto)**, publicada no portal Eracareers, com a referência **(ref. edital)**, declaro sob compromisso de honra que conclui o grau académico de **(grau académico)**, habilitante à tipologia de bolsa a concurso, designadamente o curso **(designação)**, pela **XXXX (Universidade conferente de grau)**, na data **XX/XX/XXXX**, com média final de **XX** valores.

Por não me ser possível apresentar o comprovativo das habilitações até ao termo do concurso, declaro que me comprometo a apresentar o referido certificado na celebração do contrato de bolsa, no caso de ser selecionado para a vaga a concurso.

Por ser verdade, vai a presente declaração ser por mim datada e assinada.

(Local), (data).

**Declaration of Honor****Academic Degree/Diploma**

**(name)**, applicant to the research fellowship vacancy under the I&D project **(title or reference)**, published in the Eracareers porta/EURAXESSI, reference **xxxx**, hereby declares to have a degree on **XXXX** (name of the course), concluded in the University of XXXX, on the XX/XX/XXXX, with the final grade of XX.

I have submit my diploma for recognition in the University of XXXX, according to the Decree-Law nº 66/2018 of August 16th, concluded In the XX/XX/XXXX, with the final grade of XX.

I further declare that I undertake to present proof of my diploma recognition obtained under the Portuguese Law, until the date of the conclusion of the fellowship contract, in case of being selected for the vacancy in this competition.

As this is true, this declaration will be dated and signed by me.

(Place), (date).

**Vacant posts:** 1

**Type of contract:** Other

**Job country:** Portugal

**Job city:** Guimarães

**Job company/institute:** University of Minho

**Application deadline:** 25 Fevereiro 2021

*(The Application's deadline must be confirmed on the Job Description)*

[↑ Top of page](#)

**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](mailto:isise@civil.uminho.pt)

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

[⬆ Top of page](#)

**3. Habilitações académicas**  
**3. Required education Level**

*Empty*

[⬆ Top of page](#)

**4. Línguas exigidas**  
**4. Required languages**

*Empty*

[⬆ Top of page](#)

**5. Experiência exigida em investigação**  
**5. Required research experience**

*Empty*

[⬆ Top of page](#)