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Português

1. Description of the position / position / scholarship
1. Job description**Position / position / scholarship:**

RESEARCH FELLOWSHIP FOR DOCTORAL STUDENTS OR MASTERS REGISTERED IN ACADEMIC NON-CONFERENT COURSES

Reference: CognitiveCMMS-POCI-01-0247-FEDER-033574-UM.B2.21

Generic scientific area: Engineering

Specific scientific area:

Ad summary:

A call for applications for the award of a Research scholarship for PhD students or Masters enrolled in non-academic degree courses under the Cognitive CMMS Cognitive Computerized Maintenance Management System project with reference POCI-01-0247-FEDER-033574, is open co-financed by the European Regional Development Fund (ERDF), through the Competitiveness and Internationalization Operational Program (POCI).

Ad text

A call for applications for the award of a Research scholarship for PhD students or Masters enrolled in non-academic degree courses under the Cognitive CMMS Cognitive Computerized Maintenance Management System project with reference POCI-01-0247-FEDER-033574, is open co-financed by the European Regional Development Fund (ERDF), through the Competitiveness and Internationalization Operational Program (POCI), under the following conditions:

Scientific Area : Civil Engineering, Architecture or related areas.

Recipients : Doctoral students at the University of Minho or Masters enrolled in non-academic degree courses integrated in the Educational Project of the School of Engineering at the University of Minho (registration must be confirmed at the date of the respective contract).

Applicants for the Scientific Research Fellowship (BI) should preferably satisfy the following requirements:

- Master in Civil Engineering, Architecture or related area. Candidates should preferably have a final average higher or equal to 14 points. For the evaluation of the final average of candidates with a Bachelor's / Bachelor's degree plus a master's degree, a weight of 60% will be attributed to the final classification in the Bachelor's / Bachelor's degree and 40% to the final classification in the Master's degree;
- Knowledge and experience at the programming level;
- Proficiency in English.

Candidates' eligibility: Candidates must meet the eligibility conditions provided for in article 9 of the FCT IP Research Fellowship Regulation (2019) .

Work plan : Activity to be developed focused on the component of definitions and applications of predictive models within the scope of the research project. The main objectives and results to be achieved are as follows:

- State of the art on predictive models and decision support algorithms in the context of Building Maintenance Management;

- Support in the definition of the system architecture and the "data warehouse";
- Development and quality tests of different predictive models (neural networks and machine learning, among others);
- Integration of the effects of building maintenance actions in the predictive models developed;
- Support in the development and application of the "Decision Support Module (DSM)" in predictive maintenance;
- Support for application in pilot study cases.

Applicable legislation and regulation : Research Scholarship Statute, approved by Law No. 40/2004 of August 18, in the current wording published by Decree-Law No. 123/2019 of August 28; Regulation of Research Grants of the Foundation for Science and Technology, IP - in force; Regulation of Scientific Research Scholarships of the University of Minho - in force, published in Diário da República No. 119/2020, Series II of 2020-06-22.

Reception and Scientific Orientation Unit : The work will be developed at the Civil Engineering Department of the University of Minho, Guimarães, at the Institute for Sustainability and Innovation in Structural Engineering (ISISE), under the scientific guidance of Professor José Matos and Professor Miguel Watermill.

Duration of the scholarship (s) : The scholarship will have a duration of 12 months, starting in March 2021. The scholarship may eventually be renewed, in the case of PhD students, in accordance with the applicable legislation and execution of the Project.

Amount of monthly maintenance allowance : The amount of the scholarship corresponds to the base amount of € 1,074.64, according to the table of scholarship values from the University of Minho (Annex II - Table of Scholarship Amounts). **Other benefits:** Reimbursement of Voluntary Social Security, corresponding to the 1st Level of the contributory tax base (*for scholarships lasting 6 months or more*) and Personal Accident Insurance.

Composition of the Selection Jury : Professor Doctor José António Campos e Matos (President); Professor Miguel Ângelo Dias Azenha (effective member); Doctor Mário Rui Freitas Coelho (effective member); Doctor Hélder Manuel da Silva e Sousa (alternate member). In the event that the President of the Jury is unable to attend, he will be replaced by the first effective member, and the alternate member will be appointed to replace the effective member.

Evaluation and selection criteria and procedures : The evaluation of applications will focus on the candidate's Merit, applying the following evaluation criteria, valued on a scale of 1 to 5 points:

Candidate's merit - MC (100%):

- 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 Bachelor / Bachelor's) - 20%
- demonstration of prior training in the context of Maintenance Management (either during the Master's / Bachelor's Degree or in complementary contexts) - 20%
- professional and / or academic experience in advanced programming - 20%
- publications in magazines and conferences - 20%
- command of the English language (preferably with proof of training) - 20%

The final classification of the candidate's merit will be obtained by applying the following formula:

$$MC = (a * 0.2) + (b * 0.2) + (c * 0.2) + (d * 0.2) + (e * 0.2)$$

An interview may be conducted to decide the selected candidate. This selection interview will be conducted in English to assess the mastery of that language, assessing the capacity for expression and critical sense, motivation and sense of responsibility. In this case, the interview will have a weight of 33% in the final classification, and the curriculum evaluation will have a weight of 67% in the final classification.

In the event that none of the candidates for the competition has the appropriate profile for the execution of the work plan, the Jury reserves the right to close the competition without any recruitment.

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 to facts that occurred 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 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, alter the candidate's ranking, the contracting of the scholarship will not be carried out.

Note: Candidates with degrees obtained abroad must present proof of recognition of qualifications in Portugal and conversion of the final classification obtained in them to the Portuguese classification scale or declaration in the terms indicated in the previous point. Candidates who do not comply with one of these provisions, the jury will assign a minimum score of 10 out of 20 in the undergraduate and / or master's degree.

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

If the result is unfavorable to the granting of the requested scholarship, candidates have a period of 10 working days to comment, if they 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 at the reception unit, as well as by email to all candidates, attaching them if, for this purpose, the minutes with the jury's deliberations.

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

The final decision may be filed with the President of the Jury within 15 working days. Those interested 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 competition is open from 02/15/2021 to 02/26/2021.

Applications must be formalized by sending an application letter accompanied by the following documents: *curriculum vitae; qualification certificate (with indication of final classification) or candidate's declaration of honor referred to in the notice; document proving enrollment in a PhD or in a course that does not confer an academic degree (if applicable at the date of application); motivation letter*).

Applications must be sent by email to jmatos@civil.uminho.pt with CC to miguel.azenha@civil.uminho.pt , indicating the reference of the **CognitiveCMMS-POCI-01-0247-FEDER-033574-UM.B2 contest. 21** . Applications sent by other means will not be accepted.

Non-discrimination and equal access policy: UMinho promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, benefited, harmed or deprived of any right or exempt from any duty due, namely, ancestry, age, sex, sexual orientation, marital status, family status, economic status, education, origin or social status, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic or race origin, territory of origin, language, religion, political or ideological convictions and union membership.

Cofinanciado por:



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Declaration of Honor

Academic qualifications

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).

(nome)

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 portal, 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).

Número de vagas: 1

Tipo de contrato: Outro

País: Portugal

Localidade: Guimarães

Instituição de acolhimento: Universidade do Minho

Data limite de candidatura: 26 February 2021

(A data limite de candidatura deve ser confirmada no texto do anúncio)

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

Instituição de contacto: ISISE - Institute for Sustainability and Innovation in Structural Engineering

Endereço:

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

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4. Línguas exigidas
4. Required languages

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5. Experiência exigida em investigação
5. Required research experience

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