

ANNOUNCEMENT FOR THE AWARD OF A POST-DOCTORAL RESEARCH GRANT

REFERENCE: Edital BIPD-ISISE-UMINHO-K2D-POCI-01-0247-FEDER-045941-B2A

A call for applications is now open for the attribution of (1) post-doctoral research grant within the scope of the R&D Project “K2D - Knowledge and Data from the Deep to Space”, with reference POCI-01-0247-FEDER-045941, funded by European Regional Development Fund (FEDER), through the Competitiveness and Internationalization Operational Program (POCI) and by the Portuguese Foundation for Science and Technology (FCT) within the context of the MIT-Portugal Programme, under the following conditions:

SCIENTIFIC AREA: Engineering, Applied Mathematics, Physics or related fields

RECIPIENT CATEGORY: The BIPD are intended for doctorates in the field of Engineering, Applied Mathematics, Physics or related fields, who cumulatively meet the following requirements:

- Holders of a PhD degree obtained in the three years prior to the date of submission of the grant application;
- Have carried out the research work that led to the attribution of a PhD degree in an entity other than the host unit (Institute for Sustainability and Innovation in Structural Engineering, ISISE);
- Do not exceed, with the conclusion of the contract in question, including possible renewals, a cumulative period of three years in this type of grant, consecutive or interpolated.

Candidates who do not cumulatively meet the requirements described will be excluded.

APPLICANTS ELIGIBILITY: Applicants must comply with the eligibility conditions laid down in article 9 of the Research Grants Regulation of the Portuguese Foundation for Science and Technology (2019).

APPLICATION DEADLINE AND SUBMISSION: The call for applications is open from 08/03/2022 to 22/03/2022.

Applications must be sent exclusively by e-mail to eduardo.pereira@civil.uminho.pt, with the subject “Edital BIPD-ISISE-UMINHO-K2D-POCI-01-0247-FEDER-045941-B2A”, with the following documents:

- Elements of the National Identity Card/Citizen Card/Passport/Visa/Title of Residence;
- *Curriculum Vitae* of the candidate, in Portuguese or in English;
- Certificates of the academic degree(s) or the candidate's declaration of honor that the degree was obtained until the end of the term of application (if applicable);
- Motivation letter, in Portuguese or in English;
- Letters of recommendation (if applicable);
- Papers authored by the candidate (maximum of 3);
- Other documents considered relevant to the assessment of the scientific and professional path.

Regarding the above mentioned admissibility requirements, the following should be noted:

- In the case of a degree granted by a foreign higher education institution, and in order to ensure the application of the principle of equal treatment to candidates holding foreign and national academic degrees, it is mandatory to recognize the degree and convert the respective final grading to the Portuguese grading scale. The academic degrees and diplomas documents, or their respective recognition when awarded by foreign higher education institutions are not mandatory in the application phase, being replaced by a declaration of honour of the candidate with the contents of academic results. The documents of academic qualification or respective recognition will be required in the contracting phase and must attest facts that occurred on a date prior to the application.
- Only candidates who have completed the required qualification by the end of the application period will be admitted. If they do not yet have the official degree certificate, a declaration of honour from the candidate stating that he/she has completed the qualifications required by the end of the application period, will be accepted. At the time of the respective hiring the candidate must present the official degree certificate.

DURATION OF THE RESEARCH GRANT: The research grant will last for 6 months, with a provisional start on April, 2022. The grant may be eventually renewed until the end of the project and/or applicable legislation.

WORK PLAN AND OBJECTIVES TO BE ACHIEVED:

The successful candidate will develop research in the scope of the K2D project, whose main objective is to make feasible the usage of telecommunications submarine cables for ocean observation and monitoring. The project will cover aspects ranging from developing and testing sensing equipment, through algorithms for online data analysis, control, communications and localization as well as environmental monitoring and ocean sound scaping using acoustic sensors installed along the cable. Particular application is sought for the CAM-ring cable between Portugal, Azores and Madeira islands to be replaced in the coming years.

HOST INSTITUTION AND SCIENTIFIC SUPERVISION: The work plan will be carried out at ISISE - Institute for Sustainability and Innovation in Structural Engineering - of the Civil Engineering Department, School of Engineering of the University of Minho, located in the city of Guimarães, and at CINTAL - Centro de Investigação Tecnológica do Algarve -, under the scientific supervision of Professors Sérgio Jesus and Eduardo Pereira.

CRITERIA AND PROCEDURES FOR APPLICATIONS ASSESSMENT AND SELECTION: The evaluation of applications will focus on the Candidate's Merit, following evaluation criteria, valued on a scale of 0 to 5 points:

Candidate's Merit – CM (100%):

In the Candidate Merit (CM) assessment the following parameters and assessment criteria are considered with the respective weights:

- **CP** - Scientific and technological production, cultural or artistic, and activities of applied research, obtained by the formula **0,40PQ + 0,40PV + 0,20AI**. PQ corresponds to the

quantitative evaluation of publications in ISI/SCOPUS journals: in ocean acoustic data models and programming skills, ocean acoustic propagation modeling and/or acoustic equipment deployment and testing at sea, PQ = up to 100 points; publications in related fields, PQ = up to 60 points; publications in other fields, PQ = 0 points. PV corresponds to the qualitative assessment of 3 articles to be provided by the candidate, PV = up to 100 points. AI corresponds to the evaluation of applied research activities or based on the practice of ocean acoustic data models and programming skills, ocean acoustic propagation modeling and/or acoustic equipment deployment and testing at sea, AI = up to 100 points; activities in related fields, AI = up to 60 points; activities in other areas, AI = 0 points – with a weighting of 80%.

- **ML** - Motivation Letter, describing the relevance of the scientific experience for the position and personal career goals: ML = up to 100 points – with a weighting of 20%.

The final classification of the Candidate's Merit (CM) will be obtained by applying the following formula:

$$\mathbf{CM = 0,80CP + 0,20ML}$$

SELECTION PANEL

The Selection Panel is composed by the following elements:

- President: Doctor Eduardo Nuno Borges Pereira, Assistant Professor, ISISE, University of Minho.
- Effective members: Doctor Marcos Silva Martins, Assistant Researcher, CMEMS, University of Minho, and Doctor Tiago Filipe Silva Miranda, Assistant Professor, ISISE, University of Minho.
- Substitute member: Doctor Vítor Manuel Couto Fernandes Cunha, Assistant Researcher, ISISE, University of Minho.

If the President of the Selection Panel is unavailable, he/she shall be replaced by the first effective member. The first substitute member will replace the effective member.

The Selection Panel, including the President, undertake the commitment to respect a set of responsibilities essential to the evaluation process, such as the duties of impartiality, of stating any potential situations of conflict of interest and confidentiality.

DISCLOSURE OF RESULTS: The evaluation results, based on minutes, will be sent to the candidates by e-mail.

If the result is not in favour of the applicant, he/she has a period of 10 working days to comment the results, if he/she wishes it so, in the context of a prior hearing with the interested parties, under the terms of article 121 and 122 of the Administrative Procedure Code (DL n^o 4 / 2015 of January 7).

COMPLAINT AND APPEAL PROCEDURES: The final results of the evaluation will be sent by e-mail to all candidates, enclosing for that purpose, the minutes of the Selection Panel deliberations.

The selected candidate must indicate, in writing, the intention to accept the grant. In case of rejection, the grant will be awarded to the next candidate in the ordered list of candidates.

The candidates ranked in the next positions on the ordered list will be included in a selection reserve list, which is valid for a period of three months.

The final decision can be contested, having 15 working days for this purpose, by sending to the President of the Selection Panel the corresponding claim. Interested parties may also submit an optional hierarchical appeal, addressed to the Pro-Rector of the University of Minho for Scientific Projects and Research Management.

GRANT CONTRACTING: The grant will be attributed by signing a fellowship contract between the University of Minho and the fellow, accordingly with the contract minute (annex IV of the Regulation of Research Grants of the University of Minho).

At the time of hiring, the following documents must be sent:

- a) National Identity Card/Citizen Card/Passport/Visa/Title of Residence;
- b) Copy of the certificates of the academic degrees;
- c) Presentation of the certificate of recognition of foreign academic degrees and conversion of the respective final grading into the Portuguese grading scale, if applicable;
- d) Science ID;
- e) NIB/IBAN (document of the Bank with the name of the candidate);
- f) Tax Identification Number (NIF);
- g) Digital mobile key (digital signature).

The contract may only be concluded after all the documentation required is collected, which must take place within a maximum period of 6 months.

Once all the documentation has been received, the contracting entity has a period of 60 working days to conclude the scholarship contract. Once received, the fellow must return the contract duly signed within 15 working days.

The activities under the grant contract can only be begun after proper authorization by the contracting entity.

AMOUNT OF THE RESEARCH GRANT: The value stipend (Monthly Maintenance Allowance) is 1686 euros per month in accordance with the stipend's values published by the Foundation for Science and Technology (FCT I.P.) - <http://www.fct.pt/apoios/bolsas/valores>.

Payments are made by bank transfer on the 23rd of each month to the account identified by the grant holder.

OTHER BENEFITS: Reimbursement of Voluntary Social Security (Social Security contributions), corresponding to the 1st level of discounts (for grants of 6 months or more) and Personal Accident Insurance.

EXCLUSIVITY REGIME: The grantee will perform the activities under exclusivity, as foreseen in article 5^o of the Research Fellow Statutes and applicable regulations.

TERMS AND CONDITIONS FOR GRANT RENEWAL

Grant may be renewed for additional periods, if this information is provided in "DURATION OF THE RESEARCH GRANT" and in the contract. This additional period may not exceed the regulatory limits or the end of the project.

The renewal of the grant always depends on a petition submitted by the grant holder, on a date prior to the end of the grant contract, accompanied by the following documents:

- a) report issued by the supervisor(s) and by the host entity(ies) on the follow-up of the grant holder's work and the evaluation of his/her activities;
- b) updated document proving compliance with the exclusive dedication regime.

TERM AND CANCELLATION OF GRANT CONTRACTS: At the end of the grant, the grantee is obliged to present a Final Report of the work carried out, in accordance with the objectives and evaluation criteria defined with the scientific advisor, within 30 days after the end of the scholarship.

The final report must be prepared in accordance with Annex I of the Scientific Research Grants Regulation of the University of Minho (RBIC), published in *Diário da República*, 2nd Série, no. 119, through dispatch no. 6524/2020 of 22-06-2020, ratified by ratification declaration no. 447/2021 of 22-06-2021.

APPLICABLE LEGISLATION AND REGULATIONS: Research Grant Holder Statutes, approved by Law no. 40/2004 of August 18, in its current version published by Decree-Law no. 123/2019 of August 28; Regulation of Scientific Research Grants of the University of Minho (RBIC), published in "Diário da República", 2nd series, no. 119, through dispatch no. 6524/2020 of 22-06-2020, ratified by ratification declaration no. 447/2021 of 22-06-2021 and Regulation of Research Studentships and Grants (RBI) of the Foundation for Science and Technology, I.P. - in force.

ADDITIONAL INFORMATION: You can find the Portuguese version of the application, templates for the declaration of honour, contract and final report at:

<https://www.isise.net/site/index.php?module=publicPages&target=details&id=19>

Co-financed by:

