

ANNOUNCEMENT FOR THE AWARD OF A RESEARCH FELLOWSHIP

Title: Research Fellowship; 1 (one) vacancy

Reference: CALG_ATE_BI_2025_02

A call for applications is now open for the attribution of one Research grant within the scope of the Centro Algoritmi I&D project ATE-Aliança para a Transição Energética (Candidatura C644914747-00000023/56), financed by Plano de Recuperação e Resiliência (PRR) through Agência para a Competitividade e Inovação – IAPMEI, I.P., under the following conditions:

Scientific Area: Engineering, Management or Economics

Recipient category: Bachelors enrolled in a master's degree in Engineering and Operations Management field

Requirement for granting the fellowship:

- The applicants may apply without prior registration in the course for which the fellowship is open. The requirement to enroll in a degree course or non-academic degree course will be verified on the date of contracting the fellowship;
- Only fellowships whose selected applicants present a valid proof of enrollment in a degree course or non-academic degree course will be contracted, according to the type of the fellowship, issued by a Higher Education Institution, indicating, respectively, the academic year or its duration (star and term).

Applicants' eligibility: Candidates who meet the conditions set out in Article 9 of the Research Grant Regulations, No. 950/2019, of 16-12-2019, of FCT I.P. are eligible.

Nationals or citizens of other European Union member states, third-country nationals, stateless persons, and citizens with political refugee status are eligible to apply for this competition.

Candidate eligibility requirements: candidates must have, at the time of application, a Bachelor's degree in Engineering, Management or Economics or related fields. Mandatorily, candidates must also have:

- Academic training in Engineering and Operations Management;
- Knowledge of data organization and management;
- Knowledge of database creation;
- Good knowledge of quantitative forecasting models and financial markets.

Preferred Factors:

- Experience in creating databases.
- Good knowledge of Python, pivot tables, and Power BI.

Workplan and objectives to be achieved:

- Analysis of national energy consumption data by region;
- Study of the spatial and temporal complementarity of electricity production and consumption;
- Dissemination of results in conferences and scientific journals.

This research context and methodological approach is adequate for the consolidation of the researcher's scientific training within the course leading to an academic degree or diploma.

Applicable legislation and regulations: Research Fellow Statute (EBI), approved by Law n.º 40/2004 of August 18, in its current wording and FCT Research Fellowship Regulation, approved by Regulation n.º 950/2019, published in the Diário da República, 2nd series, of December 16, 2019, in its current wording, and Scientific Research Fellowship Regulation (RBIC) of the University of Minho, approved by order n.º 4998/2025, published in the Diário da República, 2nd series, n.º 81, of April 28, 2025 Amended and republished through amendment statement no. 634/2025/2, published in the Official Gazette, 2nd series, no. 132, of July 11.

Host/Contracting institution and scientific supervision: The workplan will be carried out in Centro ALGORITMI of University of Minho, located in Campus Azurém, Guimarães, under the scientific supervision of Doctor Paula Fernanda Varandas Ferreira, Associate Professor of Department of Production and Systems of School of Engineering of University of Minho and coordination of Doctor Vítor Duarte Fernandes Monteiro, Principal Investigator of the project.

Fellowship duration: The grant will take place for a period of 6 months, with a provisional starting date on the November, 2025. The research grant contract can be eventually renewable for additional periods up to two years. Under no circumstances may research grants exceed the maximum duration of the project and/or the applicable legislation.

Amount of the research grant: The amount of the grant corresponds to 1040,98 €/month, according to the table of values of the Research scholarship of the University of Minho, updated annually, as decided by the Management Board. Payment is made on the 23rd of each month, through bank transfer to the Bank Identification Number of the fellow identified in the contractualization process.

Other components of the research grant: Define other components of the scholarships, as provided for in Article 18° of the FCT Research Scholarship Regulations (RBI).

Other benefits: Reimbursement of Voluntary Social Insurance, if the candidate chooses to receive it, corresponding to the 1st level of discounts (for research grants with a total duration 6 months or higher) and personal accident insurance.

Exclusivity regime: The grantee will perform the activities under exclusivity, as foreseen in article 5° of the Research Fellow Statutes and applicable regulations.

Selection panel:

President, Doctor Vítor Duarte Fernandes Monteiro, Assistant Professor of Electronics Engineering Department of School of Engineering of University of Minho;

Effective member, Doctor João Luís Afonso, Full Professor of Electronics Engineering Department of School of Engineering of University of Minho;

Effective member, Doctor Paula Fernanda Varandas Ferreira, Associate Professor with Habilitation of the Department of Production and Systems of School of Engineering of University of Minho;

Substitute member, Doctor Manuel João Sepúlveda Mesquita Freitas, Assistant Professor of Electronics Engineering Department of School of Engineering of University of Minho;

Substitute member, Doctor José Gabriel Oliveira Pinto, Assistant Professor of Electronics Engineering Department of School of Engineering of University of Minho.

The first effective member will substitute the President of the selection panel in case of impediment, being nominate the first substitute member in the place of the first effective member.

Criteria and procedures for applications assessment and selection: The applications assessment will focus on the Candidate's Merit, following evaluation criteria, valued on a scale of 0 to 20 values:

Candidate's Merit - CM (100%):

- A. Academic path, with a weighting of 50%;
 - 1. Final academic grade of the candidate, with a weighting of 50%;
 - 2. Degree training field, with a weighting of 50%;
- B. Personal curriculum (considering professional and scientific background), with a weighting of 40%;
 - 1. Knowledge of data organization and management, with a weighting of 25%;
 - 2. Knowledge of database creation, with a weighting of 25%;
 - 3. Knowledge of Python, pivot tables and PowerBI, with a weighting of 25%;
 - 4. Knowledge of quantitative forecasting models and financial markets, with a weighting of 25%.
- C. Motivation letter and recommendation letters, with a weighting of 10%.

The degree training field will be evaluated according to the table established in the criteria definition minute, previously drawn up.

The classification of the candidate's merit will be achieved through the following formula:

$$CM = (a*0,5) + (b*0,4) + (c*0,1)$$

$$\text{In which, } A = (A.1*0,5) + (A.2*0,5)$$

$$\text{In which, } B = (B.1*0,25) + (B.2*0,25) + (B.3*0,25) + (B.4*0,25)$$

If the jury is unable to make a decision using the Candidate's Merit (MC) method, they may choose to conduct an Interview (INT). In this case, MC will be weighted at 70%, and the candidates ranked in the top three positions and who obtain a minimum score of 9.5 values on the MC will be admitted to the Interview phase. The jury will then evaluate the following subcriteria:

Interview – INT (30%):

- I.1: Interpersonal skills, with a weighting of 30%;
- I.2: Demonstrated knowledge in the project working field, with a weighting of 40%;

I.3: Motivation, with a weighting of 20%;

I.4: Language skills, with a weighting of 10%.

The classification of the Interview will be achieved through the following formula:

$$\text{INT} = (\text{I.1} \times 0,3) + (\text{I.2} \times 0,4) + (\text{I.3} \times 0,2) + (\text{I.4} \times 0,1)$$

The final classification (FC) of Candidate's Merit (CM) and Interview (INT) will be achieved through the following formula:

$$\text{FC} = (\text{CM} \times 0,7) + (\text{INT} \times 0,3)$$

Candidates who obtain a valuation lower than 9,50 values in the final average of any selection method are considered excluded from the final valuation.

In the event that none of the candidates in the call meets the appropriate profile to execute the work plan, the Jury reserves the right to close the call without any recruitment.

Applicants 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 under the terms indicated in the previous point. Candidates who do not comply with one of these provisions, the selection panel will assign "0" in the grade of the graduation and/or master course. Candidates will be evaluated on the remaining parameters.

Application deadline and submission: The call for applications is open from 07.10.2025 till 21.10.2025.

Applications must be submitted by email to recrutamento@algoritmi.uminho.pt, indicating the reference number of the competition in the subject line. Only applications submitted within the established deadline and accompanied by the following documents will be accepted:

a) Candidate's updated curriculum vitae;

b) Certificates of the academic degrees obtained or, if applicable, the candidate's declaration of honor that he/she has completed the degrees required in the notice by the application deadline (not applicable to research initiation grants).

For degrees obtained abroad, the record of recognition of the academic degrees and record of the conversion of the respective final classification to the Portuguese classification scale must be presented, or, alternatively, a declaration of honor from the candidate.

This declaration must attest to facts that occurred prior to the application. In the event of a discrepancy between the information contained in the declaration and the documentation submitted for the purposes of contracting the scholarship, only the information contained in the latter will be considered. If it is found that the documents proving the academic degree and diploma, or their recognition under the terms of Decree-Law n.º 66/2018, of August 16, do not correspond to the classifications awarded in the assessment of the academic career and may consequently alter the candidate's ranking, the scholarship will not be contracted;

c) Motivation letter.

Form of publication/notification of results: The results of the evaluation are published in a single list by final score obtained, posted in a visible and public place in the host unit, as well as by email to all candidates, attaching, for this purpose, the minutes of the jury's deliberations, within a maximum period of 90 working days from the deadline for submission of applications.

Candidates are informed, at a preliminary hearing, in accordance with Articles 121 and 122 of the Administrative Procedure Code, of the likely outcome of the final decision, and may comment within 10 working days of this notification.

An appeal may be lodged against the final decision within 15 working days, or an appeal may be lodged with the highest executive body of the funding entity within 30 days, both after the respective notification (Article 12(nº6) of the FCT Research Grant Regulations).

Within 10 working days of notification of the grant award, the applicant must declare their acceptance in writing. In case of non-acceptance, the next highest ranked applicant will be notified immediately.

Fellowship contractualization: The scholarship is awarded through the signing of a contract between the University of Minho and the scholarship recipient, in accordance with point 2.4 of the Rules for the Award and Management of Scholarships https://www.fct.pt/wpcontent/uploads/2022/03/Normas_de_Atribuicao_de_Bolsas_2021.pdf and the draft contract in Annex II of the University of Minho's Scientific Research Scholarship Regulations.

The contract can only be signed after receipt of all the documentation required for the type of scholarship, which must occur within a maximum period of 6 months, including proof of academic degrees or diplomas, as well as enrollment in non-degree study cycles or courses, as applicable.

Once all the documentation has been received, the contracting entity has 60 working days to sign the scholarship contract. Once received by the scholarship holder, the contract must be returned, duly signed, within 15 working days.

Term and cancellation of fellowship contracts: Without prejudice to the other grounds laid down in the University of Minho's Scientific Research Scholarship Regulation and in the Research Fellow Statute, the scholarship will cease on completion of the contracted work plan, as well as on expiry of the period for which it was granted or renewed.

The **final report** must be submitted to the scientific advisor, in accordance with the defined objectives and evaluation criteria, no later than 60 working days after the end of the scholarship and must be drawn up in accordance with Annex I of the Regulations of the University of Minho.

Non-discrimination and equal access policy: Universidade do Minho actively promotes a policy of non-discrimination and equal access, so that no candidate may be privileged, benefited, harmed or deprived of any right or exempt from any duty due, namely, 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 convictions and trade union membership.

Declaration of Honor
Academic qualifications

I, (full name), candidate for the vacancy for the award of a (type of scholarship), within the scope of the project (name or reference of the project), published on the Euraxess portal, with the reference (ref. notice), declare on my honor that I have completed the academic degree of (academic degree), qualifying for the type of scholarship in the competition, namely the course (designation), by the (University conferring the degree), on the date XX/XX/XXXX, with a final average of XXXXX values on the YY scale.

As it is not possible for me to present proof of qualifications until the end of the competition, I declare that I undertake to present the aforementioned certificate at the conclusion of the scholarship contract, in the event that I am selected for the vacancy in the competition.

As this is true, I hereby date and sign this declaration.

(Place), (date).

(full name)

NOTE: The declaration may only attest to facts that occurred prior to the application.

In the event of a discrepancy between the information contained in the declaration and the documentation submitted for the purpose of contracting the scholarship, only the information contained in the latter will be taken into account.

Declaration of Honor

I, (full name), bearer of identification document number (XXXX), candidate for a research grant (type of grant), within the scope of the project (name or reference of the project), published on the Euraxess portal, with the reference (ref. call for proposals), declare on my honor that (I have not received any research grants to date / I have received the following research grants) under the Research Grant Holder Statute.

University	Financing Entity	Project	Type of Grant	Duration	Start	Term

As this is true, I hereby date and sign this declaration.

(Place), (date).

(full name)