# ANNOUNCEMENT FOR THE AWARD OF A POST-DOCTORAL RESEARCH FELLOWSHIP

**Title**: (*Post-Doctoral research Fellowship; 1 vacancy*)

**Reference**: O3F_BIPD_2023_11_CALG

A call for applications is now open for the attribution of one grant of Post-Doctoral Research Fellowship within the scope of the R&D project, of Algoritmi Center, PCIF/GRF/0141/2019,, financed by national funds (PIDDAC) through FCT - Foundation for Science and Technology, I.P. /MCTES under the following conditions:

**Scientific Area:** Geography

**Specific Scientific Area:** Geographic Information Systems and Remote Sensing

**Recipient category:** The BIPD are intended for doctorates in the area of Geographic Information Systems and Remote Sensing, who cumulatively meet the following requirements:

- Holders of a PhD degree obtained in the three years prior to the date of submission of the fellowship application***;

- Have carried out the research work that led to the attribution of a PhD degree in an entity other than the host unit Algoritmi Center **;

- Do not exceed, with the conclusion of the contract in question, including possible renewals, a cumulative period of three years in this type of fellowship, consecutive or interpolated.

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

** Different R&D Units are included, even if located in the same Organic Unit (UOEI) of UMinho (no. 4 and 5 of article 7 of the FCT I.P Research Grant Regulation, in force)

***Documents proving the ownership of academic degrees and diplomas, or their respective recognition when they have been awarded by foreign higher education institutions, when applicable for the type of scholarship in the call for applications, may be waived at the application stage, being replaced by declaration of honor of the candidate, with the verification of this condition occurring only in the phase of contracting the scholarship. This statement must attest facts that occurred on a date prior to the application. In situations of divergence between the information contained in the declaration and the documentation submitted for the purpose of contracting the grant, only the information contained in the latter will be considered. If it is verified 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 August 16, do not correspond to the classifications awarded in the evaluation of the academic path and may, consequently, change the candidate's ranking, the fellowship contracting will not be done.

**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).

**Workplan and objectives to be achieved**: The characterization of the landscape where a fire occurs or may occur is one of the central aspects of the O3F project. This characterization allows the use of generic models of fire propagation, forest management and positioning of combat means developed within the scope of the project.

This work plan aims to develop and implement methods that allow a better characterization of the landscape than those that have been used (i.e. land use charts and fieldwork) and that have clear disadvantages (from the outset the rapid outdating).

It is intended to use remote sensing to characterize the landscape in two main aspects: type of fuel (to be used in surface fire models and, eventually with other tools, in canopy fire models) and sensitive points (for models of optimization aimed at protecting people, for example).

The activities to be carried out are:

1. Literature review on remote sensing in rural fires.

2. Development of methods for identifying and classifying plots according to different criteria (e.g. according to fuels).

3. Implementation of methods and integration in the geographic information system.

4. Study of a case in a real landscape.

The main objective is the inclusion of a remote sensing module in the pyO3F proof-of-concept software.


**Applicable legislation and regulations:** Research Fellowship 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 Fellowships 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 Fellowships (RBI) of the Foundation for Science and Technology, I.P. - in force.


**Host/Contracting institution and scientific supervision**: The workplan will be carried out in the Algoritmi Center of School of Engineering of University of Minho, located in the Azurém Campus, Guimarães, under the scientific supervision of the Professor Filipe Pereira Pinto Cunha Alvelos, Associate Professor at the Department of Production and Systems at the School of Engineering at the University of Minho and Professor António Avelino Batista Vieira, Assistant Professor at the Department of Geography at the Institute of Social Sciences at the University of Minho.


**Fellowship duration**: The grant will take place for a period of **6 months**, with a provisional starting in **july** of **2023**. The fellowship grant may eventually be renewed up to the maximum duration allowed in the project and/or by the legislation and regulations in force for this type of scholarship.

**Amount of the research grant**: The value stipend (Monthly Maintenance Allowance) is **1741 euros, per month**, in accordance with the stipends values published by the Foundation for Science and Technology (FCT I.P.) in the country (Annex I – Monthly Stipends Values for the maintenance allowances of the [FCT Regulation for Research Studentships and Fellowships](#)) and Annex II of the Regulation of Scientific Research Fellowships 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, according to the applicable regulation. Payment is made on the 23st of each month, through bank transfer to the Bank Identification Number of the fellow identified in the contractualization process.

**Other benefits:** Reimbursement of Voluntary Social Security (Social Security contributions), 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**: The selection panel has the following composition:

**President:** Filipe Pereira Pinto Cunha Alvelos, Associate Professor at the Department of Production and Systems at the School of Engineering at the University of Minho;

Effective members: Senhorinha Fátima Capela Fortunas Teixeira, Associate Professor at the Department of Production and Systems at the School of Engineering at the University of Minho and António Avelino Batista Vieira, Assistant Professor at the Department of Geography at the Institute of Social Sciences at the University of Minho.

Substitute members: Ana Maria Alves Coutinho Rocha, Associate Professor at the Department of Production and Systems at the School of Engineering at the University of Minho and António José Bento-Gonçalves, Associate Professor at the Department of Geography at the Institute of Social Sciences at the 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 1 to 5 values:

Applicant Merit - AM (100%):

A. Academic path (which reflects the classifications of academic degrees), with a weighting of 50%;

B. Personal curriculum (which reflects the scientific and professional path), with a weighting of 40%;

C. Letter of motivation, with a weighting of 10%.

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

$$MC=(A\times0.5) + (B\times0.4) + (C\times0.1)$$

If the jury does not consider itself able to decide using the method indicated in A (MC), it may choose to carry out an Interview. In this case, the MC will have a weighting of 70% and the candidates classified in the first 2 positions, who obtain a minimum classification of 3.75 in the MC, will be admitted to the Interview phase, with the Jury proceeding with the evaluation of the following sub-criteria:

D.   Interview – ENT (30%):

D.1: Interpersonal skills (30%).

D.2: Demonstrated knowledge in the area of the competition (40%).

D.3: Motivation (20%)

D.4: Language skills (10%).

The final classification of the Interview with the achieved through the following formula:

$$ENT=(D*0,3) + (D*0,4) + (D*0,2) + (D*0,1)$$

The final classification (CF) of the Candidate Merit (MC) and Interview (ENT) will be obtained by applying the following formula:

$$CF = (AM*0,7) + (ENT*0,3)$$

Candidates who score less than 2.375 in any of the selection methods are considered excluded from the final assessment.

If none of the candidates demonstrate to have a suitable profile for the execution of the work plan, the Jury is entitled to close this call without selecting a candidate


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 honor 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. In situations of divergence between the information contained in the declaration and the documentation submitted for contracting the grant, only the information contained in the latter will be consider. If 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 August 16, do not correspond to the classifications awarded in the evaluation of the academic path, which can change the candidate's ranking, the fellowship won't be contracted.


**Disclosure of results:** The provisional results of applications, based in the selection panel minutes, will be send to the applicants by email until 90 working days from the applications deadline.

If case of unfavourable results, the candidates have a period of 10 working days to comment, if desired, in a prior hearing to interested parties, pursuant to articles 121 and 122 of the Code of Administrative Procedure (DL no. 4 / 2015 of January 7th).

*[The hearing of the interested parties, if excluded, should be justified accordingly with article 124º of CPA]*

**Complaint and appeal procedures**: The final results of the evaluation will be published through an ordered list (*alphabetically, by final grade obtained*), posted in a visible and public place of the host unit, as well as by email to all applicants, enclosing for that purpose, the minutes of the jury deliberations.

The selected candidate must inform its willingness to accept the grant, in writing. In case of rejection, the fellowship will be awarded to the next candidate in the ordered list of applicants.

Interested parties may also appeal against the final decision, pursuant to paragraph 3 of Article 13 of the Regulation of Research Fellowships of the University of Minho in its current wording | paragraph 6 of Article 12 of the Regulation of Research Fellowships of the FCT in its current wording.

**Application deadline and submission**: The call for applications is open from **23/05/2023 till 05/06/2023**.

Applications must be formalized, mandatorily, by sending an application letter accompanied by the following documents: *curriculum vitae; certificate of qualifications or declaration of the candidate (if applicable); letter of interest; letters of recommendation (xx); other documents considered relevant to the assessment of the scientific and professional path*.

Applications must be sent by email to **recrutamento@algoritmi.uminho.pt**, indicating the reference of the call for applications in Subject. Applications submitted by other means will not be accepted.

**Fellowship contractualization:** The fellowship 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 Fellowships 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, as indicated in 2.4 of the FCT document: "[Rules for Granting and Management of Grants within the scope of R&D projects, including infrastructure projects, the multi-annual financing program for R&D units and other FCT financing instruments (Version 2021)](.)".

The contract may only be concluded after all the documentation required is collected, which must take place within a maximum period of 6 months [including evidences of doctoral degree our its recognition in Portugal, under Decree-law no. 66/2018 of august 16th].

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 fellowship contract can only began after proper authorization by the contracting entity.

**Term and cancellation of fellowship contracts:** Without prejudice to the other causes provided the fellowship regulations (FCT and UMinho) and in the Statute of the Research Fellow, the fellowship ends with the completion of the work plan, as well as with the expiration date for which it was granted or renewed.

At the end of the fellowship, 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 Fellowships 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.

ANNEX:

## Declaration of Honor
## Academic habilitations

(name), applicant to the research fellowship vacancy under the I&D project (title or reference), published in the Euraxess 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 n° 66/2018 of August 16[th1], 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).


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(name)

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[1] DGES (Foreign Degrees and Diplomas): https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition?plid=1536; University of Minho: Recognition of foreign degrees and diplomas: https://www.uminho.pt/EN/education/Pages/recognition-of-foreign-qualifications.aspx

## Declaration of Honor
## Requirements Grant Typology

**(name)**, applicant to the research fellowship vacancy under the I&D project (title or reference), published in the Euraxess portal, reference **(fellowship Reference)**, hereby declares that complies with the conditions for the type of scholarship of the referred call, reference above, in accordance with the application requirements, legislation and regulations indicated in the notice.

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

(Place), (date).


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