

## ANNOUNCEMENT FOR THE AWARD OF A RESEARCH FELLOWSHIP

51/ECUM/CFUM/2023 - NanoAir

Research Fellowship - 1 vacancy

A call for applications is now open for the attribution of one (1) grant of Research Grant (BI) within the scope of the R&D project NanoAir – Nanomaterials Applied on Innovative Road Pavements for Air-Cleaning, (PTDC/FIS-MAC/6606/2020), financed by by national funds through FCT/MCTES, through the Operational Program PIDDAC, under the following conditions:

**Scientific Area:** Civil Engineering or related areas.

**Recipient category:** Research grant (BI) intended for R&D activities by master's in civil engineering enrolled in PhD in Civil Engineering or non-academic degree courses integrated into the educational project of the institution, developed in association or cooperation with one or more R&D units.

### 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 the academic services of the Higher Education Institution, indicating, respectively, the academic year or its duration (star and term).
- Enrollment in non-certified course (without curricular units) will not be considered as proof of enrollment

**Candidates profile:** On the date of the respective hiring, candidates must prove enrolment in PhD in Civil Engineering, or in a related field, or non-academic degree course. It is a mandatory requirement to have a background in Civil Engineering; Preferred factors: background in Optical Engineering.

**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:

- 1) Definition and analysis of the parameters involved in assessing the impacts of a road with functionalized materials: economic, health, environmental, and life cycle.
- 2) Analysis of the economic viability of the developed technology.

**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 serie, 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 work will be developed at the Physics

Center of the Universities of Minho and Porto (CF-UM-UP) and at the Institute for Sustainability and Innovation in Structural Engineering (ISISE) at the University of Minho, in Guimarães, under the scientific guidance of professor Joaquim Alexandre Santos Almeida Oliveira Carneiro, professor Elisabete Fraga de Freitas and Doctor Iran Gomes da Rocha Segundo.

**Fellowship duration:** The scholarship is expected to start in October 2023 and end at the end of the project.

**Amount of the research grant:** The value stipend (Monthly Maintenance Allowance) is **1.199,64** 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 serie, 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 23<sup>rd</sup> 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 5º of the Research Fellow Statutes and applicable regulations.

**Selection panel:**

**President:**

Joaquim Alexandre Santos Almeida Oliveira Carneiro, Assistant Professor, Department of Physics, School of Sciences, University of Minho.

**Effective members:**

Iran Gomes da Rocha Segundo, PhD researcher, Center of Physics of Minho and Porto Universities of the University of Minho;

Elisabete Fraga de Freitas, Assistant Professor, Department of Civil Engineering, School of Engineering, University of Minho.

**Substitute members:**

Vasco Manuel Pinto Teixeira, Associate Professor, Department of Physics, School of Sciences;

Joel Ricardo Martins Oliveira, Assistant Professor, Department of Civil Engineering, School of Engineering, 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 (or another scale)<sup>1</sup>:

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<sup>1</sup> If a second evaluation method is fixed – Interview, it may not have a weighting higher than 40%, according to no. 1 of article 12º of UMinho regulation;

**A. Applicant Merit - AM - (70%):**

A.1: Academic path (considering the classifications of academic degrees), with a weighting of 50%;

A.2: Personal curriculum (considering professional and scientific background), with a weighting of 40%;

A.2.1: Formação em Engenharia Óptica (100%).

A.3: Motivation letter and/or recommendation letter, with a weighting of 10%.

The merit classification (AM) of the applicant's merit with the achieved through the following formula:

$$AM = (A1 \times 0,5) + (A2 \times 0,4) + (A3 \times 0,1)$$

If the Jury deems it necessary, the candidates ranked in the first three (3) positions will be evaluated for the Interview phase, by assessing the following sub-criteria:

**B. Interview – ENT (30%):**

B.1: interpersonal skills (30%);

B.2: Demonstrated knowledge in the area (40%);

B.3: Motivation (20%);

B.4: Linguistic competences (10%).

The Jury also decided to proceed with the evaluation of the Interview, according to the following levels:

- High – 5 values;
- Good – 4 values;
- Sufficient – 3 values;
- Reduced – 2 values;
- Insufficient – 1 value.

The Interview classification (ENT) will be obtained by applying the following formula:

$$ENT = (B1 \times 0,3) + (B2 \times 0,4) + (B3 \times 0,2) + (B4 \times 0,1)$$

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

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

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

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The jury shall define whether all candidates are interviewed or identify the criterion to be applied to a set of candidates to be interviewed and its valuation (*for instance, selection of candidates ranked between the 1st and 4th position in the evaluation list of APCC*).

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 considered. 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.

**Notes:** *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.*

**Disclosure of results:** The provisional results of applications, based in the selection panel minutes, will be sent 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).

**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.

The final decision can be contested within 15 working days, by sending to the President of the jury the corresponding claim. Interested parties may also submit an optional hierarchical appeal, in the terms of the number 3 of article 13 of Regulation of Scientific Research Fellowships of the University of Minho (RBIC).

**Constitution of a selection reserve list:** The applicants ranked in the next positions on the ordered list will be included in a selection reserve list, which can be used until 28/03/2024.

**Application deadline and submission:** The tender is open for a period of **10 working days**, counting from the date of publication of the advertisement on the Euraxess portal.

Applications must be formalized by sending an application letter with the following documents: curriculum vitae; qualifications certificate or declaration of the applicant; motivation letter; statement proving that meets the conditions for the grant typology, according to the application requirements; other documents important to the evaluation process.

Applications must be sent by email to **bolsas@ecum.uminho.pt**, indicating the reference of the call for applications in Subject: **51/ECUM/CFUM/2023 - NanoAir**. 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 the academic degrees or diplomas and enrolment in degree courses or non-conferring courses, depending on the type of scholarship].

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.