

09/11/2022

# 51/ECUM/CFUM/2022 - NanoAir

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Where to apply

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Application Deadline: 23/11/2022 23:00 - Europe/London

Contact Details

**Where to send your application.**

**COMPANY**

Universidade do Minho

**E-MAIL**

bolsas@ecum.uminho.pt



## Hiring/Funding Organisation/Institute

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**ORGANISATION/COMPANY**

Universidade do Minho

**DEPARTMENT**

Escola de Ciências

**ORGANISATION TYPE**

Higher Education Institute

**WEBSITE**

<https://www.uminho.pt>

**E-MAIL**

[centrodefisica@fisica.uminho.pt](mailto:centrodefisica@fisica.uminho.pt)

**COUNTRY**

Portugal

**CITY**

Braga

**STATE/PROVINCE**

Braga

**POSTAL CODE**

4710-057

**STREET**

Campus de Gualtar

**PHONE**

253601560

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**ORGANISATION/COMPANY**

Universidade do Minho

**RESEARCH FIELD**

Engineering › Civil engineering

**RESEARCHER PROFILE**

First Stage Researcher (R1)

**LOCATION**

Portugal › Braga

**REFERENCE NUMBER**

PTDC/FIS-MAC/6606/2020

## APPLICATION DEADLINE

23/11/2022 23:00 - Europe/London

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# OFFER DESCRIPTION

Title: (Research Fellowship; 1 vacancy)

A call for applications is now open for the attribution of 1 (one) research grant within the scope of the project Nanomaterials Applied to Innovative Road Pavements for Air Cleaning with, ref. PTDC/FIS-MAC/6606/2020, from the research unit Centre of Physics of the Minho and Porto Universities, financed by national funds through FCT/MCTES, through the Operational Program (PIDDAC), under the following conditions:

Scientific Area: Civil Engineering

Recipient category: The research grant (BI) is for R&D activities carried out by students enrolled in a PhD program in Civil Engineering or related areas.

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).

Candidates profile: On the date of the respective hiring, candidates must prove enrolment in a PhD program in Civil Engineering or in related areas; it is a mandatory requirement to have a degree in Civil Engineering; experience in project management, environmental management with a focus on environmental impact analysis and sustainability, and cost management and economic viability of technologies are preference factors.

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: It is intended that the fellowship holder apply and develop knowledge of Civil Engineering, Sustainability and Management in the research of functionalized materials for roads, namely in carrying out the following activities:

- 1) Development of sensors based on the functionalisation of materials of various road elements, such as pavements, paints, vertical signs.
- 2) Defining and analysing the parameters involved in assessing the impacts of a road with functionalised materials: economic, health, environmental, and life cycle impacts.
- 3) Follow-up of in situ monitoring of a functionalised road section.
- 4) To analyse the sustainability and 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), at the University of Minho, in Guimarães, under the scientific guidance of Professors Joaquim Alexandre Santos Almeida Oliveira Carneiro and Elisabete Fraga de Freitas.

Fellowship duration: Each scholarship will last for 11 months, starting in January 2023. The scholarship may eventually be renewed according to the execution of the project and the applicable legislation.

Amount of the research grant: The value stipend (Monthly Maintenance Allowance) is 1,104.64 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 23st 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 the other components of the research grants, in accordance with the no. 5 of the article 18º of the FCT Regulation for Research Studentships and Fellowships, no. 950/2019 of 16-12-2019 or article 21º of the Regulation of Research Fellowships of the University of Minho (RBIC), accordingly with the regulations applicable).

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:** Elisabete Fraga de Freitas, Assistant Professor, Department of Civil Engineering, School of Engineering, University of Minho and Joel Ricardo Martins Oliveira, Assistant Professor, Department of Civil Engineering, School of Engineering, University of Minho;

**Substitute Members:** Hugo Manual Ribeiro Dias da Silva, Assistant Professor, Department of Civil Engineering, School of Engineering, University of Minho and Manuel Filipe Pereira Cunha Martins Costa, Assistant Professor, Department of Physics, School of Sciences, 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:

1. Applicant Merit – MC (70%):

A1: Master's Classification (which reflects the classifications of academic degrees), with a weighting of 50%;

A2: Personal curriculum (considering professional and scientific background), with a weighting of 40%:

A.2.1: Publications in the field of functionalization of paving materials or other road elements (50%);

A.2.2: Activities in the field of sustainable and waste management (50%);

A.3: Motivation letter, with a weighting of 10%.

The final classification of the applicant's merit (MC) will be achieved through the following formula:

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

If the Selection Panel deems it necessary, the candidates classified in the first 3 positions, who obtain a minimum classification of 4 in the MC, will be admitted to the Interview phase, and the Jury will evaluate the following sub-criteria:

B. Interview - ENT (30%):

B.1: Interpersonal skills (30%);

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

B.3: Motivation (20%);

B.4: Language Skills (10%).

The Jury also decided to value the Interview, according to the following levels:

High - 5 values;

Good - 4 values;

Sufficient – 3 values;

Low – 2 values;

Insufficient - 1 value.

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

$$CF=(MC\times 0.7) + (ENT\times 0.3)$$

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 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. 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, addressed to the Pro-Rector for Research and Projects, Professora Sandra Paiva.

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 06/31/2023.

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 (Note: The deadline for submitting applications shall not be less than 10 working days).

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/2022 - 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

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 begin 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.

Note: The information above required should be submitted in the Euraxess Portal[1], in the fields reserved for those purposes[2].

[1] The USRH acts as administrator of University of Minho – Human Resources profile. After registration of the employee/researcher/teacher as individual user in the Euraxess, the USRH can add the individual user through the email as “member” of the entity “University of Minho”, allowing the user to publish the fellowship announcements in the Euraxess Portal.

[2] The FCT ended with the previous validation of the fellowships announcements. The R&D units must strictly follow the Rules for granting and managing research fellowships (2021).

## More Information

ADDITIONAL INFORMATION

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## Benefits

Please you can find the information in the Offer Description section

## Eligibility criteria

Please you can find the information in the Offer Description section

## Selection process

Please you can find the information in the Offer Description section

## Web site for additional job details

<https://www.ecum.uminho.pt/pt/Investigacao/Paginas/Emprego-Cientifico.aspx>

### REQUIREMENTS

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#### Offer Requirements

## Skills/Qualifications

Please you can find the information in the Offer Description section

## Specific Requirements

Please you can find the information in the Offer Description section

# Map Information



 Job Work Location  Personal Assistance locations

## WORK LOCATION(S)

1 position(s) available at  
Universidade do Minho  
Portugal  
Braga  
Braga

4710-057 Braga  
Campus de Gualtar

EURAXESS offer ID: 862104

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