



Universidade do Minho
Escola de Arquitetura, Arte e Design



Laboratório de Paisagens,
Património e Território

INOV.AM
INNOVATION IN
ADDITIVE MANUFACTURING

ANNOUNCEMENT FOR THE AWARD OF A RESEARCH FELLOWSHIP Lab2PT/BI-INOVA.M/05

1 research fellowship, reference Lab2PT/BI-INOVA.M/05

There is an open call for a Research Fellowship under Project N.º 79999 - INOVA.M - Innovation in Additive Manufacturing, in WP19 - Rein4Concrete, project supported by PRR - Recovery and Resilience Plan and the European Funds Next Generation EU, following the Notice N.º 02/C05-i01/2022, Component 5 - Capitalization and Business Innovation - Mobilizing Agendas for Business Innovation, ongoing in Lab2PT - Landscapes, Heritage and Territory Laboratory, University of Minho, under the following conditions:

Scientific Areas: Architecture, Civil Engineering or related areas.

Recipient category: The fellowship to be granted is intended for masters in Architecture, Civil Engineering or related areas, enrolled in non-academic degree courses as part of the educational project of a higher education institution developed in association or cooperation between the higher education institution and 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 enrol 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 enrolment in a degree course or non-academic degree course will be contracted, according to the type of the fellowship, indicating, respectively, the academic year or its duration (start and term).

Profile:

The following are eligible to apply for this competition:

- Nationals or citizens of other member states of the European Union;
- Citizens of third countries;
- Stateless persons;
- Citizens with political refugee status

Candidate admissibility requirements:

- a) Candidates must hold, at the time of application, a Master's degree in the scientific areas of Architecture, Civil Engineering or related fields;
- b) Candidates may not have benefited from a non-conferring degree research grant for a cumulative period of 2 consecutive or interpolated years;





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Património e Território

INOV.AM
INNOVATION IN
ADDITIVE MANUFACTURING

- c) During the contractualization phase, candidates must submit: a proof of enrolment in a non-conferring degree research course; proof of academic qualifications completed by the deadline for applications, including those resulting from academic degree recognition processes;
- d) Have an academic record and CV with competences in some of the following areas: design of modular architectural and construction systems; digital fabrication and robotics, 3D printing in cement mortars; parametric and generative design;
- e) Fluency in written and oral English.

Admissibility requirements:

It is essential, under penalty of not being admitted to the competition, to attach the following documents to the application:

- The candidate *curriculum vitae*;
- 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, the candidate's declaration of honor (not applicable to research initiation grants);
- Motivation letter;
- Statement proving that meets the conditions for the grant typology, according to the application requirements;
- Personal portfolio.

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 Fellow will carry out activities under the "INOV.AM - Innovation in Additive Manufacturing" project, specifically related to "WP19 - Rein4concrete" assigned to the University of Minho. In that context, the aim is to collaborate in the research and development of modular architectural and construction systems, exploring computational design methodologies and 3D printing tools in cement mortars (3DPC). In particular, tasks centred on:

- literature review on modular construction systems to be produced by 3D Concrete Printing (3DCP);
- definition of a proposal for a modular architectural/constructive system to be produced by 3DCP, considering the functionalisation and reversibility of the system;
- development of a parametric design tool for generating and evaluating the solutions listed in the previous point;
- support for the production of study prototypes and final demonstrators;
- support for the development of ongoing work within the scope of the 'WP19 - Rein4concrete activities;
- documentation, dissemination and transfer of research knowledge through the production of articles, communications and content for electronic platforms, organisation of events and scientific





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Património e Território

INOV.AM
INNOVATION IN
ADDITIVE MANUFACTURING

training.

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: Work will be developed at the Landscape, Heritage and Territory Laboratory, School of Architecture, Art and Design of Universidade do Minho, on the *Campus* of Azurém, under the scientific guidance of Professor Bruno Acácio Ferreira Figueiredo.

Fellowship duration: The fellowship will have a duration of 6 (six) months, scheduled to begin in May 2025, possibly renewable, depending on the financial availability of the project. Under no circumstances may the grant exceed the maximum duration of the project and/or the applicable legislation.

Note: Candidate admitted to the tenders must meet the conditions that enable them, under the applicable Research Fellowships Regulations, to comply with the maximum legal duration for the type of fellowship stipulated in the opening notice for the tender, considering the fellowships from which they eventually benefited previously, in a consecutive or interpolated period.

Amount of the research fellowship: The value stipend (Monthly Maintenance Allowance) is 1.259,64€ 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 23rd 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





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Património e Território

INOV.AM
INNOVATION IN
ADDITIVE MANUFACTURING

Paulo Jorge de Sousa Cruz, Full Professor of Escola de Arquitetura, Arte e Design of the Universidade do Minho.

Effective vowels:

Bruno Acácio Ferreira Figueiredo, Associate Professor of Escola de Arquitetura, Arte e Design of the Universidade do Minho.

Aires Fernando Fernandes Leite Camões de Azevedo, Associate Professor of Departamento de Engenharia Civil of the Escola de Engenharia of the Universidade do Minho.

Substitute vowels:

Paulo Jorge Figueira de Almeida Urbano de Mendonça, Associate Professor of Escola de Arquitetura, Arte e Design of the Universidade do Minho.

Raul Manuel Esteves de Sousa Fangueiro, Full Professor of Departamento de Engenharia Mecânica of the Escola de Engenharia of the Universidade do Minho.

In the event of impediment by the President of the Jury, he will be replaced by the first effective vowel, and the substitute vowel will be appointed to replace the effective vowel.

Criteria and procedures for applications assessment and selection: The evaluation of the applications will focus on the candidate's Merit, being applied the following evaluation criteria, valued on a scale of 1 to 20 points:

Merit of the candidate - MC (100%):

- a) A.1: Academic path (which reflects the classifications of the academic degrees in the scientific areas of the fellowship, according to the reference table), with a weighting of 30%;
- b) A.2: Personal Curriculum and portfolio (which reflects the applicant's scientific and professional background, when applicable), with a weighting of 60%, evidencing:
 - Have an academic background and CV with competences in some of the following areas: design of architectural and modular construction systems; digital fabrication and robotics, 3D printing in cement mortars; parametric and generative design;
 - Mastery of the English language;
 - Autonomy and organisational skills.
- c) A.3: Motivation letter, with a weighting of 10%.

The classification for the **merit of the candidate (MC)** will be obtained by applying the following formula:

$$MC=(A1*0,3)+(A2*0,6)+(A3*0,1)$$





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Património e Território

INOV.AM
INNOVATION IN
ADDITIVE MANUFACTURING

The jury reserves itself the right not to grant the fellowship if there are no candidates with the appropriate profile for the tender.

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 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: *Candidates with degrees obtained abroad must present a proof of recognition of those qualifications in Portugal and a conversion of the final classification obtained in the degree to the Portuguese classification scale or a declaration in the terms indicated in the previous point. To the candidates who do not comply with one of these provisions, the jury will assign the minimum grade in the degree and / or master's course grade, according to the defined scale of values. Candidates will be evaluated on the remaining parameters.*

Disclosure of results: The evaluation results project, based in the selection panel minutes, will be sent to the applicants by email, in accordance with article 12 of the FCT's RBI (FCT funding) | article 13 of UMinho's RBIC (other funding subject to UMinho regulations).

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.

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 2 of article 15 of Regulation of Scientific Research Fellowships of the University of Minho (RBIC).

Application deadline and submission: The call for applications is open 14/03/2025 to 27/03/2025. Applications must be formalized, mandatorily, by sending an email accompanied by the following documents:

- a) The candidate *curriculum vitae*;





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Património e Território

INOV.AM
INNOVATION IN
ADDITIVE MANUFACTURING

- b) Certificate(s) of qualifications specifying the final classification and, if possible, the marks obtained in all the subjects taken, or, alternatively, a declaration of honour by the candidate;
- c) For degrees obtained abroad, a record of the recognition of academic degrees awarded by foreign higher education institutions and a record of the conversion of the respective final classification to the Portuguese classification scale, or, alternatively, a declaration of honour by the candidate;
- d) Motivation letter;
- e) Statement proving that meets the conditions for the grant typology, according to the application requirements;
- f) Personal portfolio.

Applications must be sent by email to info@lab2pt.uminho.pt, indicating the reference of the call for applications in Subject “Lab2PT/BI-NOV.AM/05”. Applications sent by other means or extemporaneous 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.

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. Contract template and final report template ([link](#)).





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Património e Território

INOV.AM
INNOVATION IN
ADDITIVE MANUFACTURING

Declaration of Honor Academic habilitations

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.





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Património e Território

INOV.AM
INNOVATION IN
ADDITIVE MANUFACTURING

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.

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

(Place), (date).

(full name)

