

EURAXESS

# Job offer

JOB


PORTUGAL

[LNEC, I.P.](#) | Posted on: 30 April 2025

## Research fellowship (RF) in the scope of the research project "AI4Az – Artificial Intelligence for Tile Heritage Safeguard

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### Status message

Job Offer [Research fellowship \(RF\) in the scope of the research project "AI4Az – Artificial Intelligence for Tile Heritage Safeguard](#) has been created.

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## Job Information


Organisation/Company	LNEC, I.P.
Department	Human Resources and Facilities Services
Research Field	Engineering
Researcher Profile	First Stage Researcher (R1)
Positions	Bachelor Positions
Country	Portugal
Application Deadline	15 May 2025 - 23:59 (Europe/Lisbon)
Type of Contract	Temporary
Job Status	Full-time
Is the job funded through the EU Research Framework Programme?	Other EU programme
Reference Number	reference 2024.07297.IACDC-2 (PRR (FF483))
Is the Job related to staff position within a Research Infrastructure?	No

## Offer Description

### 1 - Title

#### RESEARCH FELLOWSHIP (RF)

### 2 - Offer description

As per the terms laid down in *Regulamento de Bolsas de Investigação of FCT* (FCT Regulation for Research Fellowships), approved by [Law no. 40/2004](#) , 18 August, as it stands, we announce the launching of a call for awarding one research fellowship (RF) in the scope of the research project “AI4Az – Artificial Intelligence for Tile Heritage Safeguard, reference 2024.07297.IACDC-2”.

### 3 – Financing source

100% by PRR (FF483), Component 5 - “Capitalização e Inovação Empresarial” (Capitalization and business innovation), in the framework of the investment “RE-C05-i08 - Ciência Mais Digital” (More Digital Science), measure RE-C05-i08.m04 – “Apoiar o lançamento de um programa de projetos de I&D orientado para o desenvolvimento e implementação de sistemas avançados de cibersegurança, inteligência artificial e ciência de dados na administração pública, bem como de um programa de capacitação científica” (support the launch of R&D projects program aimed at the development and implementation of advanced cybersecurity, artificial intelligence and data science systems in public administration , as well as a scientific training program).

### 4 – Scientific area

Computer Engineering, Computer Science, Data science, Information systems, Electronic Engineering or related areas

## 5 - Duration

The Grant shall be awarded for a 7-month period

## 6 – Reserve list

A reserve list for selection shall be drawn up for a 6-month period as from the date of the final decision of this call.

## 7 – Activity Regime

All the work shall be developed on an exclusive dedication regime, as per the provisions laid down in the Statute of the Research Fellow, approved by Law no. 40/2004, 18 August, as it stands, and in LNEC Regulation for Fellowships, available on LNEC website.

## 8 - Work plan and objectives

AI machine/deep learning imagery analysis methodologies for automatic tile damage applied to RGB and hyperspectral imagery will be implemented and compared. Literature research will be conducted, and a selection of machine learning algorithms (such as convolutional neural networks, YOLO) and combinations of them will be tested for their efficiency in detecting, mapping, and quantifying tile damage features (fissures, areas lacking glaze, biocolonisation, missing elements, and restoration areas). Comparing the efficiency of different machine learning routines in assessing tile panel damage will enable the selection of the best AI routines for each historic tile damage typology to be implemented and disseminated to the scientific, professional and concerned community.

## 9 - Location

Workplace: LNEC – National Laboratory for Civil Engineering, I.P.

Avenida do Brasil, 101 – 1700-066 Lisboa

Country: Portugal

Website: <https://www.lnec.pt> 

Email: [recrutamento@lnec.pt](mailto:recrutamento@lnec.pt)

The above activities shall be conducted at the Information Technology and Computer Infrastructures Unit of the Scientific Instrumentation Center (NTIII/CIC) of LNEC, without prejudice to the possibility of performing temporary missions in Portugal.

## 10. - Qualifications


Eligible candidates are students enrolled in a master's or integrated master's degree in Computer Science, Computer Engineering, Electronic engineering, or related scientific areas.

Candidates should have the ability to work in multidisciplinary teams, motivation to, and experience in research activities in the fields mentioned in section 4, preference being given to candidates with experience in software development"

## 11 – Scientific supervision

The activities will be supervised by the assistant researcher Gonalo Jesus and the assistant researcher Ant3nio Lorr3o Antunes from LNEC's NTIII/CIC.

## 12 - Monthly allowance

The Grant shall include a [monthly allowance](#)  in the amount of € 1.040,98. The Grant fellow shall also be entitled to a specific social security system and to insurance against personal accidents at work.

## 13 - Selection methods and criteria

The evaluation of the applications shall be based on the Applicant's Merits (MC), and the following evaluation criteria shall be scored on a 0 to 20 scale.

Applicant's merits:

- Academic Background (PA) – scores of the academic degrees required by this call, namely degree (or equivalent) or MSc – 50%
- Professional Résumé (CP) – scientific and professional career – 30%
- Interview with the selection jury (ES) – 20%

Hence:

$$MC = (0.5 * PA) + (0.3 * CP) + (0.2 * ES).$$

The jury is entitled to decide not to award the Grant if the quality of the applicants is deemed below par.

## 14 - Selection jury

President:

Gonçalo de Jesus, Assistant Researcher;

Members

António Lorvão Antunes, Assistant Researcher;

Sílvia R. M. Pereira, Assistant Researcher

Alternates:

Anabela Pacheco de Oliveira, Principal Researcher

## 15 - Application documents

### 1. at the time of the application:

- Letter of motivation (maximum: one A4 page).
- Degree certificate, with indication of the partial scores and final classification.
- Document stating the score obtained in each curricular unit of the course the applicant is attending.

Foreign certificates shall be valid only if they are dully endorsed by an issuing entity, or if a recognition/equivalence document is produced stating that the foreign qualifications correspond to the same Portuguese qualifications. The respective scores can only be used if they are officially converted to the Portuguese scoring scale (by *DGES – Direção Geral do Ensino Superior* or by a public higher education institution), even if the foreign classification corresponds to a 0 to 20 scale.

- Official document of enrollment in the degree course defined in paragraph 10 of the present notice.

Should the candidate be unable to produce such document, without any fault on his/her part, he/she may replace it by a sworn declaration stating that he/she has been enrolled in the said degree course.

- Detailed Curriculum Vitae.
- Other documents (optional), such as letters of reference and supporting documents of internships or complementary courses considered as relevant for the purposes of this Grant

## **2. at the time of the awarding of the contract:**

- Official document stating that the applicant is enrolled in the degree course defined in 10.
- Necessary information for preparing the contract.

### **16 – Deadline for applications**

Between 02 to 15 May 2025


### **17 - Formalization of applications**

The applications shall be formalized by one of the following means:

- Electronic mail addressed to [recrutamento@lnec.pt](mailto:recrutamento@lnec.pt), until 24h00 of the last day of the stipulated time limit
- directly to the Setor de Arquivo e Expediente Geral of LNEC, at Avenida do Brasil, 101, 1700-066 Lisboa.
- registered letter with acknowledgement of receipt addressed to LNEC, I.P., Avenida do Brasil, nº101, 1700-066 Lisboa; the date of delivery considered for the purpose of compliance with the stipulated time limit being the date of registration

In the last two cases, the applications shall be delivered in a sealed envelope, bearing the following information on the outside: ““Concurso para atribuição de uma bolsa de investigação (BI) FCT, no âmbito do projeto “AI4Az – Artificial Intelligence for Tile Heritage Safeguard reference 2024.07297.IACDC-2” - (NTIII/CIC)

### **18 - Notification of results**


The final score of each evaluation stage shall be advertised in a list sorted by the final score obtained, all applicants being notified by electronic mail. The results shall also be published on the [Recruitment](#)  page of LNEC's website.

### **19 - Deadlines and procedures for preliminary hearing, claims and appeals**

Once the provisional ranked list of the evaluation results has been communicated, applicants who have an unfavourable provisional decision may use their right to dispute it during the preliminary hearing phase (if requested), which takes place within 10 working days, according to the Administrative Procedure Code (CPA).

The final decision shall be disclosed after the analysis of applicants' arguments presented in the preliminary hearing. Final decision can be claimed within 15 working days or, alternatively, appealed to the Board of Directors, within 30 working days, after the communication of the final results, respectively.

### **20 - Further information**

Additional information can be obtained by phone: +351 218 443 892 or +351 218 443 216 or by electronic mail to the address referred to in 17. The applicants living outside of Portugal can also refer to the portal [EURAXESS Portugal](#) .

21 - Standard fellowship contract

Available on the [Recruitment](#)  page of LNEC's website.

22 - Model of the final report to be prepared by the research fellow and supervisor

Available on the [Recruitment](#)  page of LNEC's website.

## Where to apply

E-mail	recrutamento@lnec.pt
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## Requirements

Research Field	Engineering
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Education Level	Bachelor Degree or equivalent
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## Additional Information

### Work Location(s)

Number of offers available	1
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Company/Institute	LNEC - Laboratório Nacional de Engenharia Civil
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Country	Portugal
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City	Lisbon
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Postal Code	1700-066 Lisboa
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Street	Avenida do Brasil, 101
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Geofield	
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## Contact






State/Province	Lisbon
City	Lisbon
Website	<a href="http://www.lnec.pt/pt/">http://www.lnec.pt/pt/</a>
Street	Av. do Brasil, 101
Postal Code	1700-066
E-Mail	recrutamento@lnec.pt

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