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Job offer

JOB

PORTUGAL

[LNEC, I.P.](#) | Posted on: 16 December 2024

Call for awarding a part-time research fellowship (RF) in the scope of force balance development to measure aerodynamic forces on wind tunnel tests.

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16 Dec 2024

Job Information

Organisation/Company	LNEC, I.P.
Department	Human Resources and Facilities Services
Research Field	Engineering » Mechanical engineering
Researcher Profile	First Stage Researcher (R1)
Positions	Bachelor Positions
Country	Portugal
Application Deadline	10 Jan 2025 - 23:59 (Europe/Lisbon)
Type of Contract	Temporary
Job Status	Part-time
Is the job funded through the EU Research Framework Programme?	Not funded by a EU programme
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 do LNEC* (LNEC Regulation for Research Fellowships), approved by [Law no. 40/2004](#), 18 August, as it stands, we announce the launching of a call for awarding a part-time research fellowship (RF) in the scope of force balance development to measure aerodynamic forces on wind tunnel tests.

3 – Financing source

LNEC own revenue

4 – Scientific area

Mechanical Engineering, Design and Construction

5 - Duration

The Grant shall be awarded for a 1-year period, renewable up to 2 years

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

The research fellow will participate in research and innovation activities, within the scope of the scientific area for which the fellowship is granted, and dully integrated in research projects.

In particular the scholarship holder will be able to carry out his/her activity in the aerodynamic area namely as regards the study, development and implementation of a six-component balance to measure with good reliability all the aerodynamic components (three forces and three moments) on physical models under testing in LNEC's wind tunnels. The tasks to be performed are:

- Literature review with particular emphasis on wind tunnel measurement techniques;
- Development and design of the aerodynamic balance, with the definition of concept taking into account the test requirements, set-up and instrumentation;
- Construction of the balance, including the specification of the instrumentation and acquisition system, as well as of the components and materials required for the final assembly;
- Calibration of the balance using traceable reference standards and evaluation of measurement uncertainties for each of the 6 components;
- Demonstration of the balance identifying its characteristics and application field, as well as the instrument capabilities and limitations; one test should be performed in the wind tunnel to check the behavior of the force balance.

9 - Location

Workplace: LNEC – *Laboratório Nacional de Engenharia Civil, I.P.*

Avenida do Brasil, 101 – 1700-066 Lisboa

País: Portugal

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

Email: recrutamento@lnec.pt

The above activities shall be conducted at the Earthquake and Structural Dynamic Division of the Structures Department, without prejudice to the possibility of performing temporary missions in Portugal.

10 - Qualifications

Eligible applicants can be those enrolled in an MSc in mechanical or aerospace engineering or similar fields.

All the candidates should be fluent in Portuguese language and have good knowledge of English.

11 – Scientific supervision

The researcher Fernando Virgílio Pires de Oliveira shall be responsible for supervising the scientific activities.

12 - Monthly allowance

The Grant shall include a [monthly allowance](#) in the amount of € 559.00 and a daily food allowance proportional to the working time. The 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 MSc degree or equivalent – 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:

Laura Maria Melo Saraiva Caldeira, Principal researcher;

Members:

Eduardo Manuel Cabrita Fortunato, Principal Researcher

Maria do Rosário da Silva Veiga, Principal Researcher

Alternates:

António Santos Carvalho Cabral Araújo Correia, Senior researcher;

Fernando Virgílio Pires de Oliveira, PhD holder 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 duly 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, but assuming the compromise to deliver this document when signing the contract.

- 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 17 December 2024 and 10 January 2025

17 - Formalization of applications

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

- electronic mail addressed to 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), no âmbito do desenvolvimento de uma balança para medição de forças aerodinâmica nos ensaios em túnel de vento”.

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 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

Requirements

Research Field Engineering » Mechanical engineering

Education Level Bachelor Degree or equivalent

Additional Information

Work Location(s)

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








Contact

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

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