

## **NOTICE OF OPENING OF AN INTERNATIONAL SELECTION PROCEDURE FOR THE RECRUITMENT OF A DOCTORATE INITIAL LEVEL RESEARCHER POSITION**

By order of 03-08-2023, the Dean of FEUP, Professor Rui Artur Bártolo Calçada, deliberated to open an international selection procedure for the recruitment of 1 Doctorate Initial level within the scope of Project “Alliance for Energy Transition (ATE)” nr. C644914747-00000023, investment project nr. 56, from the Incentive System to Mobilising Agendas for Business Innovation, funded by the Recovery and Resilience Plan and by European Funds NextGeneration EU , for research scientific activities in the area of Transportation Systems, in the form of a Uncertain Term Employment Contract, by legal imperative, under the terms of paragraph b) of no. 1 of article 6 of RJEC, *ex vi* of no. 2 of article 18 of RJEC, and will be maintained only for the period necessary to execute the tasks defined in the project and identified below, whose expected duration is 24 months, never exceeding the maximum limit of six years.

This recruitment aims the performance of activities corresponding to the category of Doctorate Initial level, as stated in article 8 of Regulation No. 487/2020, of May 22.

The Doctorate Initial level, in abstract, is responsible for carrying out the activities foreseen in no. 2 of art. 7 of Regulation no. 487/2020, of May 22nd. Specifically, the Doctorate Initial level will develop R&D activities in the scope of the areas of Operational Research, Transportation Planning and Management, contributing to the Workpackage 4 - Descarbonização da mobilidade, foreseen in the application:

- Definition of the main concepts, algorithms and techniques to apply in the development of the multimodal transportation platform;
- Identification of multimodal synchronization networks;
- Support in the development of mathematical models for the synchronisation of multimodal transport networks;
- Integration of the models in a Decision Support System;
- Selection of case studies and model application.

The selected researcher may also provide possible collaboration in teaching and training activities in the area of research.

**Note: The present notice is published pending the signature of the Term of Acceptance of the grant of the project, therefore, for this reason and for reasons of interest of the institution, by means of a duly reasoned act, this selection process may be terminated until before the notification of the selection minutes to the applicants, within the scope of the hearing of the interested parties.**

1. The scientific areas of this selection procedure are Operations Research, Integrated Transport Systems Planning.

2. Applicable Legislation: Regulation nº 487/2020, of 22 May - Regulation of Research, Science and Technology Staff of the University of Porto and other applicable legislation namely the Labor Code, Law on 7/2009, of 12 February, in its current version, Decree-Law no. 57/2016, of 29 August, approving a regime for contracting doctorates to stimulate scientific and technological employment in all areas of knowledge (RJEC), in the wording introduced by the first amendment provided Law no. 57/2017, of July 19, Regulatory Decree no. 11-A/2017, of December 29 and applicable regulatory standards.

3. In the wording of article 16 of Decree-Law no. 57/2016 of 29 August, this procedure is exempted from the authorization of the members of the Government responsible for the areas of Finance and Public Administration, namely in paragraph no.3 of article 7 of the LTFP; from the prior favorable opinion of the members of the Government responsible for the areas of Finance and Public Administration as mentioned in no. 5 of article 30 of the LTFP and from the procedure for the recruitment of workers in the requalification situation referred to in Article 265 of the LTFP.

4. In accordance with articles 22.º, n.º 3 and 4 of the Regulation and 13.º of the RJEC, the Recruitment board is composed as follows:

President: Professor António José Fidalgo do Couto

Member: Professor José Pedro Maia Pimentel Tavares

Member: Professor Maria Teresa Galvão Dias

Substitute Member: Professor Rosaldo José Fernandes Rossetti

Substitute Member: Professor Carlos Manuel Rodrigues

5. The work will be developed at Department of Civil Engineering of the Faculty of Engineering of the University of Porto (FEUP).

6. The monthly remuneration to be paid is €2.228,11, corresponding to level 33 of the Single Salary Table, approved by Order no. 1553-C/2008 of December 31 and level 5, position 1 from “Regulamento n.º 487/2020”.

7. Admission Requirements:

7.1 General Admission Requirements:

This competition is open to national candidates, foreigners and stateless persons holding a doctoral degree in Transportation Systems, or in a related engineering field, for 5 years or less, and with a scientific and professional curriculum that shows an appropriate profile for the activity to be developed.

Any

*doctorate awarded by a foreign higher education institution must be recognized by a Portuguese higher education institution in accordance with article 25 of the Decree-Law no. 66/2018, of August 16, which approves the legal regime for the recognition of academic degrees and diplomas of Higher Education, awarded by foreign higher education institutions and paragraph e) of no. 2 of article 4 of Decree-Law no. 60/2018, of August 3, and any formalities established therein must be complied with by the date of the hiring act.*

#### 7.2 Specific Admission requirements:

The following specific criteria must be fulfilled to determine the appropriate profile for the activity to be developed: candidates must have (i) skills and previous experience in developing econometric models and/or optimization; (ii) knowledge of traffic generation models (ii) knowledge of traffic assignment models.

#### 8. Recruitment method:

In accordance with c, the selection methods are:

- a) Evaluation of the curricular path and scientific career of the applicants (APCC) (90%);
- b) Interview (ENT) - (10%)

#### 9. Evaluation of the curricular path and scientific career (APCC) (90%)

9.1. Evaluation of the curricular path and scientific career, considering a profile that is suited to the requirements of the duties corresponding to the category covered by this competition and focusing on the relevance, quality, and correctness of the following aspects:

- a) Scientific performance in the areas and subareas for which the competition is open.
- b) Knowledge transfer.
- c) Science and technology management and communication.

9.2 In evaluating the aspects indicated in points a), b) and c) of the preceding paragraph, the activity developed in the last 5 (five) years must be considered.

9.3 The five-year period mentioned in 9.2 may be extended by the Board, at any applicant's request, when based on the suspension of scientific activity for socially protected reasons, namely for reasons of parental leave, prolonged serious illness, and other situations of unavailability for work that are legally protected.

9.4 In the evaluation of the dimensions of the aspects described in 9.1, the following parameters are considered, and the following weighting factors are attributed:

- A1) Criteria for evaluating Scientific Performance (DC) (90%)

A1.1.) Participation in international research projects as well as scientific production. The list of publications must be included in the curriculum with a clear indication of the statistical analyses used, along with the candidate's role in implementing them.

A1.2.) Development of collaborations with international researchers and study periods abroad.

A1.3.) Duly certified teaching activities both in undergraduate, graduate and post-graduate courses, as well as in continuing education courses.

A2) Criteria for Knowledge Transfer and Science and Technology Management and Communication (10%):

A2.1.) Ad-hoc reviewer;

A2.2.) organization of scientific events;

A2.3.) Participation in national and international scientific meetings with peer review as well as by invitation;

A2.4.) Supervising experience at different levels (internships, master dissertations, doctoral theses);

A2.5.) Participation in evaluation committees.

10.5 The final classification of the (APCC) is obtained by the following formula:  $APCC = (0,90 \times A1) + (0,10 \times A2)$ .

10. Evaluation of the Interview (ENT) (10%):

For the interview will be held, to the applicants with score equal or higher than 80 points, by all members of the Jury in the evaluation of their curricular path and scientific career, and the board will evaluate aspects related to the research conducted by the applicants.

The interview will be conducted in Portuguese and English.

11. Final classification:

The Final Classification (CF) of the Evaluation of the applicants' Curricular Path and Scientific Career (APCC) and interview (ENT) will be obtained by applying the following formula:

$$CF = (APCC \times 0.9) + (ENT \times 0.1).$$

12. Evaluation of the selection methods:

12.1. Each member of the Board evaluates the applicants' curricular path and scientific career on a scale from 0 to 100 points, with a weighting up to the hundredths, and the classification is obtained through the weighting defined in the criteria to be evaluated.

12.2. The interview evaluation is expressed on a scale of 0 to 100 points, with a weighting to the hundredths.

13. Evaluation methodology:

13.1. After the admission of the applicants, and before starting the voting for their final ranking in the evaluation of their scientific and curricular background, each member of the Board presents a written document, to be attached to the meeting minutes, with the list of the applicants in descending order of merit, duly substantiated, considering the criteria and parameters of this competition notice.

13.2. The Board deliberates employing reasoned roll-call voting following the selection criteria adopted and disclosed. Abstentions are not allowed.

13.3. The seriation methodology is that which is indicated in article 29 of the Regulation.

13.4. If an absolute majority of votes is not reached after the voting explained in the previous number, or in case of a tie, the Chair's vote will be used for the final ranking.

13.5. Each member of the Board must respect, in the various voting rounds, the order he or she presented in the document referred to in paragraph 13.1.

13.6. The interview has a maximum duration of one hour and is exclusively aimed at clarifying aspects related to the research carried out by the applicants.

13.7. The Board's discussions will be briefed in minutes taken during its meetings, containing a summary of what occurred, as well as the votes cast by each member and respective reasoning.

13.8. After concluding the application of the selection criteria, the jury proceeds to produce an ordered list of the approved applicants with the respective classification.

13.9. The Board's final decision is approved by the head of the institution responsible for opening the tender notice. The final decision on hiring is the responsibility of the top manager of the hiring entity.

14. Formalization of applications:

14.1. Applications must be formalized at <http://www.fe.up.pt/concursos> , reference on-line nº 1032, until 23h59m (local time) of 07-11-2023.

The application must include: full name, number and date of identity card or citizen card, or civil identification number, tax identification number, date of birth, residence, and contact address, including e-mail and telephone contact.

14.2 The application must be accompanied by documentary evidence of the conditions described in point 7 of this notice, namely:

a) Copy of doctorate certificate or diploma.

b) Detailed curriculum vitae, containing all information relevant for the evaluation of the application, as well as for demonstrating compliance with the criteria set out in point 7 of this announcement, organized in accordance with the seriation criteria set out in no. 9.4.

c) Letter of motivation.

d) Copies of up to 10 publications considered most relevant by the candidate, associated with the position;

e) Other supporting documents considered relevant to the eligibility of the application and documents that the applicant considers relevant to the assessment of his/her merit.

14.3. Failure to submit the documents mentioned in 14.2 will lead to the exclusion of the application. For purposes of hearing of the interested parties, the exclusion decision is notified to the applicants by e-mail.

14.4. The Board may, whenever it deems necessary, ask the applicants to provide complementary documents for the facts described in the submitted curriculum, setting a deadline for that purpose.

15. False statements made by applicants will be punished according to the law.

16. Notices of the results:

The minute(s) of the Board meeting(s) for evaluating the applications will be sent via e-mail with a delivery receipt.

17. Parties hearing and deadline for final decision:

In accordance with article 121 of the Administrative Procedure Code, after being notified, the applicants have 10 working days to comment. Within 90 days, counting from the deadline for submitting applications, the Board's final decisions are made.

18. The present competition is exclusively aimed at filling the indicated vacancy and may be terminated until the final ranking list of applicants is ratified, expiring with the respective occupation of the job position on offer. If none of the applicants has the appropriate profile for the performance of the functions described above within this project's scope, the Board reserves the right not to award the position in the competition.

19. Non-discrimination and equal access policy: FEUP actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, beneficiary, disadvantaged or private of any right or exemption from any duty owing, in particular, to ancestry, age, sex, sexual orientation, marital status, family status, economic situation, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs and trade union membership.