

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

By order of 11-03-2024, 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 the Research Project PRODUTECH R3 - Agenda Mobilizadora da Fileira das Tecnologias de Produção para a Reindustrialização nº C645808870-00000067, investment project nr. 60, 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 data science, in the form of an 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 5 months, never exceeding the maximum limit of six years.

This recruitment aims at 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 the 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 Project PRODUTECH R3 which inserts in the area of data science, aiming the contribution to the following Project work, within the scope WP13-“Programa Transformador-Área E-Advance4i-Sustentabilidade industrial avançada pela melhoria da eficiência energética e da utilização dos recursos produtivos”:

- Requirements Survey and Validation Plan
- Solution Specification and Architecture
- Technical Development
- Demonstration in industrial environments
- Dissemination and Exploitation
- Project Management

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

1. The scientific area of this selection procedure is data science.
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 authorisation 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 favourable 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. By 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 Vera Lucia Miguéis Oliveira e Silva

Member: Professor Maria Henriqueta Dourado Eusébio Sampaio da Nóvoa

Member: Professor José Luís Cabral de Moura Borges

Substitute Member: Professor Maria Antónia da Silva Lopes e Carravilla

Substitute Member: Professor Jorge Daniel Grenha Luís Teixeira

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

6. The monthly remuneration is €2.294,95, 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 computer science, industrial engineering and management or a related area, for 5 years or less, and with a scientific and professional curriculum that shows an appropriate profile for the activity to be developed.

A Portuguese higher education institution must recognize any doctorate awarded by a foreign higher education institution by 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:

- a) First author of 2 papers published in English in journals indexed in Scopus.
- b) Provide evidence, in the form of articles, dissertations, conference presentations, etc., of research in the area of data analysis.
- c) Have solid skills and proven previous experience in programming languages such as R or Python.

8. Recruitment method:

By articles 26 of the Regulation and 5 of the RJEC, the selection methods are:

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

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 currentness 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 years 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 and scientific production, specifically, having international publications in high-ranked peerreviewed journals or conference proceedings. The list of publications must be included in the curriculum with a clear indication of the statistical analyses used and the candidate's role in implementing them.

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

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

A2.1.) Ad-hoc reviewer;

A2.2.) organisation 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 to be held, the three best-ranked applicants in evaluating their curricular path and scientific career will be admitted, 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: $CF = (APCC \times 0.9) + (ENT \times 0.1)$.

The position will only be awarded to candidates whose final classification is equal to or higher than 80 points obtained by all members of the Jury.

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 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 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 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 they 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 and the votes cast by each member and respective reasoning.

13.8. After concluding the selection criteria application, 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 hiring decision 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 1135, until de 23h59m (local time) of 22-04-2024.**

The application must include the full name, number and date of identity card or citizen card, 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 and for demonstrating compliance with the criteria set out in point 7 of this announcement, organised 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 application's eligibility and documents that the applicant deems relevant to the assessment of their merit.

14.3. Failure to submit the documents mentioned in 14.2 will lead to the exclusion of the application.

For purposes of hearing 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 minutes (s) of the Board meeting(s) for evaluating the applications will be sent via e-mail with a delivery receipt.

17. Parties hearing and the deadline for final decision:

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

18. The present competition is exclusively aimed at filling the indicated vacancy. It may be terminated until the final ranking list of applicants is ratified, expiring with the respective occupation of the job position on offer. Suppose none of the applicants has the appropriate profile for performing the above functions within this project's scope. In that case, 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.