

NOTICE OF OPENING OF AN INTERNATIONAL SELECTION PROCEDURE FOR THE RECRUITMENT OF A TRAINEE RESEARCHER POSITION

By order of 02-05-2024, the Dean of FEUP, Professor Rui Artur Bártolo Calçada, deliberated to open an international selection procedure for the recruitment of 1 Trainee researcher within the scope of **DiverSea - INTEGRATED OBSERVATION, MONITORING AND PREDICTION ARCHITECTURE FOR FUNCTIONAL BIODIVERSITY OF COASTAL SEAS**, with the Grant Agreement nº 101082004, financed by the European Union in the scope of Horizon Europe Framework Programme”, for the exercise of scientific research activities in the area of Engineering, in the form of an individual **Uncertain Term Employment Contract**, and will be maintained only for the period necessary to execute the tasks defined in the project and identified below, whose expected duration is 1 year, never exceeding the maximum limit of four years.

The purpose of this contract is the performance of activities corresponding to the category of Trainee Researcher, as set out in article 8 of the Research, Science and Technology Staff Regulations of the University of Porto.

The Trainee Researcher performs tasks corresponding to an introduction phase to scientific research and development activities integrated into scientific projects, under the guidance of a researcher or higher education professor. The Trainee Researcher will be part of The Research Intern will be part of the DiverSea project team at LSTS - Underwater Systems and Technology Laboratory, executing and developing the activities of the DiverSea project, in an introduction phase to scientific research, executing and developing activities related to interoperable oceanic missions with autonomous systems, particularly with regard to the case study on the Portuguese continental shelf and contributing to the design of new interfaces and methodologies to automate the planning, coordination and optimization of oceanographic operations and campaigns, and must also contribute to the management and dissemination of the project, according to the guidelines of the project's Dissemination Plan.

In particular, it will support the following activities:

- WP1 - Developing nucleic acid methods, integrating field technologies and application to field case-studies
- WP2 - DiverSEA Data Space: Data integration, harmonization, cataloguing and compatibility with standards
- WP3 - Combining AI-ML and Statistical Methods for Predictive Scenario Building
- WP4 - Knowledge Integration: The MARBIOSE Dashboard for Biodiversity and Ecosystem Goods and Services
- WP5 - Consilience, Public Interface, Communication, Dissemination & Exploitation
- WP6 - Project Coordination

1. The scientific area of this selection procedure is **Electrical and Computer Engineering**.
2. Applicable Legislation: Regulation nº 487/2020, of 22 May - Regulation of Research, Science and Technology Staff of the University of Porto in its current wording and by the other applicable legislation, namely the Labour Code, Law on 7/2009, of 12 February, in its current wording and applicable regulations.
3. In accordance with articles 22.º, n.º 3 and 4 of the Regulation n.º 487/2020, of 22 May, the Recruitment board is composed as follows:
 - President: Prof. Doutor João Tasso Figueiredo Borges de Sousa, FEUP
 - Member: Doutor Renato Paulo dos Santos Mendes, COLAB+ATLANTIC
 - Member: Prof. Doutor António Pedro Rodrigues Aguiar, FEUP
 - Substitute Member: Prof. Doutor Gil Manuel Magalhães de Andrade Gonçalves, FEUP
 - Substitute Member: Prof. Doutora Maria do Rosário Marques Fernandes Teixeira de Pinho, FEUP
4. The work will be developed at the Department of Electrical and Computer Engineering of the Faculty of Engineering of the University of Porto (FEUP).
5. The monthly remuneration to be paid corresponds to level 2, position 2 predicted in the Annex I and Annex II of the Regulation of Research, Science and Technology Staff of the University of Porto , being 1.543,88 Euros, full time.
6. Admission Requirements
 - 6.1. General Admission Requirements:

This competition is open to national candidates, foreigners and stateless persons holding a BsC or equivalent higher education degree in **Electrical and Computer Engineering** which constitutes the minimum admission requirement.

Any BSc degree 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.
 - 6.2. Specific Admission requirements
For the purposes of determining the appropriate profile for the activity to be carried out, the following special admission requirements are defined:
 - a) Experience in developing tools, technology and software for autonomous robotic systems;
 - b) Experience in software development using C, C++ and JAVA languages;

7. Recruitment method:

In accordance with articles 26^o of the Regulation of Research, Science and Technology Staff of the University of Porto, the selection methods are:

7.1. Evaluation of the curricular path and scientific career of the applicants (APCC) (90%);

7.2. Interview (ENT) (10%)

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

8.1. 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:

8.1.1. Scientific performance in the areas and subareas for which the competition is open.

8.1.2. Knowledge transfer and Science and technology management and communication.

8.2. In the evaluation of the dimensions of the aspects described in 8.1, 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, especially with the publication of scientific articles in high quality international journals with peer review in the area of Command and control, Automation, Marine Robotics. PCV = up to 100 values; publications in related areas. The list of publications must be included in the curriculum with a clear indication of the statistical analyzes used and the candidate's role in implementing them.

A2) Criteria for evaluating Knowledge Transfer (KT) and Management and Communication of Science and Technology (MCST) (10%):

A2.1.) Participation in national and international projects in the area of Robotic Ocean Systems;

A2.2.) Participation in multidisciplinary scientific campaigns, in coastal areas or high seas, supporting or developing software tools for the operation of multi-vehicle systems;

A2.3.) Participation in conferences, workshops, summer schools or others in the area of Maritime Robotic Systems;

A2.4.) Activities in the area of Automation, Marine Robotics.

9. The final APCC classification is obtained by the following formula: $APCC = (0.90 \times A1) + (0.10 \times A2)$

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

Applications that obtain a rating equal to or greater than 80 points, obtained by all members of the Jury, in the evaluation of the scientific and curricular path, will be admitted, with the jury evaluating aspects related to the research carried out by the candidates.

11. Final classification:

The Final Classification (CF) of the Scientific and Curricular Path (APCC) and Interview (ENT) assessment will be obtained by applying the following formula: $CF = (0.9 \cdot APCC) + (0.1 \cdot ENT)$.

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 candidates, and before voting begins for their final ranking in the evaluation of their scientific and professional career, each member of the Jury presents a written document, to be attached to the minutes, with the ordered list of candidates in descending order of merit, duly substantiated, considering the criteria and parameters of the Competition Notice.

13.2. The jury deliberates through a nominal vote based on the adopted and published selection criteria, with abstentions not permitted.

13.3. The ranking methodology is that provided for in article 29 of the Regulations for Research, Science and Technology Personnel of the University of Porto.

13.4. If an absolute majority of votes is not reached after carrying out the votes provided for in the previous paragraph, or if a tie persists, the President's casting vote must be used for the purposes of final ordering.

13.5. Each member of the Jury must respect, in the various votes, the order presented in the document referred to in no. 13.1.

13.6. The Professional Selection Interview (EPS) lasts a maximum of one hour and aims exclusively to clarify aspects related to the research carried out by the candidates.

13.7. Minutes are drawn up at the jury meetings, which contain a summary of what occurred during them, as well as the votes cast by each member and their respective reasons.

13.8. After completing the application of the selection criteria, the jury proceeds to draw up an ordered list of successful candidates with their respective classification.

13.9. The jury's final deliberation is approved by the institution's top manager. The final decision on hiring is the responsibility of the top manager of the contracting entity.

14. Formalization of applications:

14.1. **Applications must be formalized at <http://www.fe.up.pt/concursos> , reference on-line nº 1154, until de 23h59m (local time) of 01/08/2024.**

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 6 of this notice, namely:

- a) Copy of certificate or diploma of bachelor's degree;
- b) Detailed curriculum vitae, containing all relevant information for evaluating the application, as well as demonstrating compliance with the criteria set out in point 6, organized in accordance with the ranking criteria set out in no. 8 of this notice;
- c) Motivation letter;
- d) Copies of up to 10 publications considered most relevant by the candidate, associated with the position;
- e) Other supporting documents considered relevant for assessing the eligibility of the application and documents that the candidate considers relevant for assessing their merit.

14.3. Failure to present the documents referred to in points 14.2. will result in the application being excluded. The exclusion decision is notified to the candidates, by email, for the purposes of holding a hearing for interested parties.

14.4. The jury may, whenever it deems necessary, request candidates to submit additional documents relating to the facts referred to in the CV presented, setting a deadline for this purpose.

15. False statements made by candidates will be punished in accordance with the law.

16. Notification of Results

The minutes(s) relating to the application evaluation phase(s) will be sent via email with delivery notification receipt.

17. Previous Hearing and deadline for the Final Decision

Pursuant to article 121 of the Code of Administrative Procedure, approved by Law no. 4/2015, of January 7, after being notified, candidates have 10 working days to respond. Within 90 days, counting from the deadline for submitting applications, the jury's final decisions are made.

18. This competition is intended, exclusively, to fill the indicated vacancy, and may be terminated until the approval of the final ordering list of candidates and expiring with the respective occupation of the job on offer. In the event that none of the candidates demonstrates that they have the required profile to perform the functions described above within the scope of this project, the jury reserves the right not to award the place in the competition.

19. Non-discrimination and equal access policy



FEUP actively promotes a policy of non-discrimination and equal access, meaning that no candidate can be privileged, benefited, harmed or deprived of any right or exempt from any duty due to , namely, ancestry, age, sex, sexual orientation, marital status, family situation, economic situation, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, territory origin, language, religion, political or ideological convictions and trade union membership.