

**EDITAL****21-05-2024****Edital n.º 2024/008**

OPENING OF AN INTERNATIONAL SELECTION PROCEDURE FOR THE RECRUITMENT OF A DOCTORATE RESEARCHER, IN THE FORM OF A FIXED-TERM PUBLIC SERVICE CONTRACT IN PUBLIC FUNCTIONS

1. By dispatch of the President of Instituto Superior de Engenharia do Porto, of March 11<sup>th</sup> 2024, in use of proper competence, according to article 96 of Law no. 62/2007, of September 10<sup>th</sup>, in its current wording, and to e), no. 1 of article 12 of Estatutos do Instituto Superior de Engenharia do Porto, homologated by Dispatch no. 2863/2018, of 23<sup>th</sup> February, published in Diário da República, 2<sup>nd</sup> series, no. 56, of March 20<sup>th</sup>, it is open an application call, for a 30 working days period, counted from the first working day after the publication on the Bolsa de Emprego Público, of an international application call for the recruitment of one Doctoral Researcher, to work in scientific research activities in the scientific field of Electrical Engineering, Computer Science, or similar scientific areas, in the form of a fixed-term public service contract in public functions, under the General Labour Law in Public Functions, approved in attachment to Law no. 35/2014, of June 20<sup>th</sup>, in its current wording.

2. Applicable legislation:

- General Labor Law in Public Functions, approved in the attachment of the Law no. 35/2014, of June 20<sup>th</sup>, in the current wording;
- Administrative Procedure's Code, approved in the attachment of the Decree-Law no. 4/2015, of January 7<sup>th</sup>, in its current wording;
- Regulation for hiring doctoral students aimed at stimulating scientific and technological employment in all areas of knowledge (Hiring Regulation), approved by Decree-Law no. 57/2016 of August 29, which was amended by Law no. 57/2017, of July 19<sup>th</sup>;
- Statute of the Scientific Research Career, approved by Decree-Law no. 124/99, of April 20<sup>th</sup>, in the current wording;
- Decree no. 1553-C/2008, of December 31, together with Decree-Law no. 137/2010, of December 28, by Law no. 42/2016, of December 28 and by Decree no. 280/2022, of November 18<sup>th</sup> and by the Decree no. 107-A/2023, of April 18;
- Decree no. 11-A/2017, of 29 December.

3. According to the conditions mentioned in the articles 16 and 17 of the Decree-Law no. 57/2016, of August 29<sup>th</sup>, in its current wording, the current call and the contracting of the Doctoral researcher is exempt of the permission of the Government members responsible for the fields of finances and Public Administration, namely, the mentioned in the no. 3 of article 7, of the Law no. 35/2014, of June 20<sup>th</sup>, in its current wording, and the obtention of the pre authorization of the Government members responsible for the areas of finances and Public Administration, mentioned in the n.º 5 of article 30, of the General Labor Law in Public Functions, and of the procedure of recruiting workers in the situation of requalification.

4. **Number of work position contracts:** 1 (one).

**EDITAL****21-05-2024****5. Duration of the contract:**

The contract will be celebrated in the form of a fixed-term public service contract in public functions, with a duration of three years, according to number 2 of the 6<sup>th</sup> article of the Hiring Regulation.

**6. Job description and characterization of the position to be filled:**

The Doctoral researcher work position is open in the scope of the planned activities and research work of the ISEP's Research Group on Intelligent Engineering and Computing for Advanced Innovation and Development – GECAD, namely within the scope of the intelligent management of energy resources in power systems, buildings, energy communities and local markets, considering demand response, energy storage and electric vehicles. This intelligent management will be based on the use of artificial intelligence concepts and techniques including multi-agent systems, semantics and ontologies, computational intelligence and machine learning.

The following activities apply: (i) Elaborate scientific proposals for funding calls, including the construction of consortium and budget; (ii) Manage undergoing R&D projects; (iii) Coordinate meetings of R&D projects and represent the research institution among national and international partners, as well as representing ISEP in meetings with national and international partners; (iv) Design and implement computational methods, algorithms, and applications to meet the needs of R&D projects, for laboratorial validation and pilots demonstration; (v) Design and coordinate the development of prototypes, proofs of concept, and products; (vi) Preparation and writing of deliverables of projects and other documents namely reports and support documents for the users of software; (vii) Write and publish scientific papers; (viii) Plan, and participate in communication and dissemination activities.

**6.1.** The research activities and work referred to be developed by the Doctoral researcher to be hired, will be done in the scope of projects funded by some financing programmes, including Portugal 2030, Recuperar Portugal, Next Generation EU, Horizon 2020 e Horizon Europe, in specific the projects "NGS – New Generation Storage" e TradeRES (H2020 Grant Agreement n.º 864276).

**7. Work place:**

The work will be carried out at Research Group on Intelligent Engineering and Computing for Advanced Innovation and Development – GECAD, Instituto Superior de Engenharia do Porto – ISEP, in Rua Dr. António Bernardino de Almeida, number 431, in Porto.

**8. Remuneration position:**

In compliance with Regulatory-Decree n.º 11-A/2017, of December 29th, the present procedure is open to the remuneration level 49 of the Tabela Remuneratória Única (TRU), which corresponds to a monthly remuneration of 3.170,28 Euros.

**9. General admission requirements:**

Opponents for the procedure may be national, foreign and stateless candidates who hold a Doctorate degree or recognition of a Doctorate degree under the terms of Decree-Law No. 66/2018, of August 16th, in the current wording, in a branch of knowledge or specialty that covers the scientific areas of Electrical Engineering, Computer Engineering or a related scientific area and also hold a scientific and professional curriculum that reveals a profile suitable for the activity to be developed, including:

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- Relevant scientific work in the following areas: intelligent management of energy resources in electrical energy systems, buildings, energy communities and local markets, including the “demand response” vision, energy storage systems and equipment and electric vehicles;
- Extensive experience in preparing proposals and participating in scientific research and development projects with external funding, including funding under the European Commission's Horizon Europe program. Experience must include leadership of tasks and “work packages” in European projects, with international consortia and significant interaction with business partners;
- Minimum of 6 articles published in journals indexed in the Science Citation Index-Expanded (SCIE), in the 5 years prior to the submission of the application, in the area of activities to be developed;
- High communication skills, spoken and written, in English.

Recognition of the Doctorate degree must be obtained by the deadline for submitting applications.

**10. Formalization of the applications and deadline:**

The applications are submitted, electronically, through the application form, available in [www.isep.ipp.pt/concursos](http://www.isep.ipp.pt/concursos), open for 30 business days, counted from the date of the publication in the Bolsa de Emprego Público.

The application shall include the documents that prove the conditions fixed on the 9<sup>th</sup> point, for admission to this procedure, namely:

- a) Copy of certificate or degree diploma;
- b) Doctoral thesis or equivalent document that determined the granting of this academic degree;
- c) Detailed curriculum vitae, dated and signed, structured according to the items in 12.1, and all of the works the candidate considers most relevant, must be highlighted, with a copy attached;
- d) Motivation letter;
- e) Scientific project, focusing on intelligent management, based on the use of artificial intelligence concepts and techniques, of energy resources in power systems, considering not only the systems aspect but also at local level, namely in buildings, energy communities or local markets;
- f) Any other documents that the applicant considers relevant for the analysis of your application.

All documents prepared specifically for the application must be written in English.

**11. Processing of the procedure:**

**11.1.** The selection process of Doctoral candidates begins by means of a meeting of the evaluation panel to evaluate the applications, and in order to verify, for each application, the compliance or non-compliance of the general and specific established requirements of this Notice.

**11.2.** Only candidates who correctly formalize their application and who meet the legally required requirements may be admitted, complying with the stated in this Notice and the applicable legislation. Candidates who incorrectly formalize their application or who do not prove the requirements required in this call are excluded. The false statements will be punished according to the Law.

The jury of the procedure has the right to ask any candidate, in case of doubt, to present documents to prove their statements.

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**11.3.** In the case that none of the candidates is excluded, the jury will start the application of the selection method "Evaluation of the Scientific and Curricular Course", notifying by e-mail, with notification delivery receipt, the admitted candidates regarding the beginning of the application of the selection method.

**11.4.** In the case that a candidate is excluded, the excluded candidates will be notified, by electronic mail, with notification delivery receipt, about the hearing of interested parties, in the terms of the article 121 of the Administrative Procedure's Code, granting a term for pronouncement in a prior hearing.

**11.5.** After the deadline for prior hearing of the excluded candidates, the evaluation panel assesses the questions raised by the candidates, and notifies the excluded candidates of the exclusion decision, by e-mail, with notification delivery receipt.

**11.6.** If the jury deliberates to apply the method "Interview", the candidates will be notified, by e-mail, with notification delivery receipt, of the date, time and place of the Interview, five working days in advance. Candidates who, without presenting a reasoned justification, do not attend the Interview selection method, are considered excluded from the application and are notified by e-mail, with notification delivery receipt, regarding the hearing of interested parties, in the terms of the article 121 of the Administrative Procedure's Code, applying the procedure described above in 11.4.

**11.7.** Upon completion of the application of the selection methods and parameters, the evaluation panel will proceed to the elaboration of an ordered list of the approved candidates, with their classification.

**11.8.** Applicants approved in the application of the selection methods shall be notified by e-mail, regarding the provisional final ranking unitary list, with notification delivery receipt, in the terms of the article 121 of the Administrative Procedure's Code, granting a period of ten working days for the candidates to pronounce.

**11.9.** After the deadline for prior hearing of the candidates, the jury assesses the candidates' claims and approves the final ranking list of the successful candidates. For the occupation of the working post, this list integrates the final ranking of the candidates, approved in absolute merit, in descending order of the respective classification.

**11.10.** The decisions of the evaluation panel and the final deliberation of the evaluation panel are approved by the President of Instituto Superior de Engenharia do Porto, which has the competence for the decision to contract.

**11.11.** Minutes of the meetings of the evaluation panel are elaborated, containing a summary of what has taken place in them, as well as the votes issued by each of the members and their reasons, being granted to the candidates, when requested or when required to be notified to the candidates in this procedure.

**11.12.** This procedure is intended, exclusively, for filling the advertised job position, and may be terminated until the approval of the final ordering list of candidates and expires with the respective occupation of the job position.

**12. Selection Methods:**

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According to article n.º 5 of the Hiring Regulation, the selection of the Doctoral researchers is made through the application of the selection method "Evaluation of the candidate scientific and curricular course", which will be complemented by the selection method "Interview", according to jury's deliberation.

**12.1.** The evaluation of the scientific and curricular course method focuses on the relevance, quality, and timeliness of:

- a) The scientific, technological, academic and cultural or artistic production of the last five years considered as most relevant by the candidate;
- b) The applied or practice-based research activities carried out in the last five years and considered as with highest impact by the candidate;
- c) The knowledge extension and dissemination activities developed in the last five years, namely in the context of the culture and scientific practices promotion, considered as with highest impact by the candidate;
- d) The management activities of science, technology, and innovation programs, or the experience on the observation and monitoring of the scientific and technologic system or of the high education system, in Portugal or abroad.

**12.1.1.** The evaluation criteria are the following, considering the option contained in 12.1.2., and giving particular relevance to the curriculum vitae and the contributions considered as most relevant by the candidate in the last 5 years:

- a) Quality of scientific and technologic production, namely publications, prototypes, patents, products, and recognition by the scientific community, namely through citations, scientific papers review, invited speech communications, and participation in scientific committees and scientific events organization, which is assigned a weighting factor of 40%.
- b) Participation in scientific projects with external funding, which is given a weighting factor of 45%.
- c) Scientific dissemination and knowledge transfer actions, including participation in events with oral presentation and demonstration of scientific activities results, and students' supervision, which is given a weighting factor of 10%.
- d) Activities of management of science, technology and innovation programs or experience on the observation and monitoring of scientific and technologic system or of the high education system, including activities for the support of management, monitoring, and report concerning activities and results in the context of the projects in which the candidate has participated and of the research units and groups in which the candidate is integrated, which is given a weighting factor of 5%.

**12.1.2.** In weighing the evaluation criteria described, each jury's member may consider the following additional parameter, under the following conditions:

Relevance and quality of the proposed scientific project on intelligent management, based on the use of artificial intelligence concepts and techniques, of energy resources in power systems, considering not only the systems aspect but also at local level, namely in buildings, energy communities or local markets.

The jury, if necessary, may request the candidate to present additional documents proving the candidate's statements, which are relevant to the analysis and classification of the candidate's application.

**12.2.** The Interview, with maximum duration of 60 minutes, may be applied to the candidates or a part of the candidates selected by the jury for this effect, which will cover exclusively aspects related with the candidate scientific and curricular course and with the outcomes of the candidates' scientific research activities.

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**12.3.** The jury may decide to select up to three candidates who will be asked to hold a session to present the results of their research, in which the evaluation panel must encourage an open debate about its content and innovative character. This presentation session does not constitute a selection method and it is not classified, aiming merely to obtain clarifications or explanations of elements contained in the candidates' curricula.

**12.4.** The final classification of candidates will be the result of the application of the two selection methods, by weighting 90% in the classification of the first method (Evaluation of the Scientific and Curricular Course) and 10% in the classification of the second method (Interview), after clarifying the merits of the candidates' research results in the scientific field of the call. If candidates are not submitted to the second selection method, the classification obtained in the first method represents the final classification.

**12.5.** The jury deliberates through the roll-call vote substantiated, according to the adopted and published selection criteria, without permission for abstentions. The candidates obtaining a final classification lower than 50 will not be approved in absolute merit so they will not be considered eligible to fulfill the positions under this call. The candidates with a final classification equal to or higher than 50 are considered as approved by absolute merit and will be sorted in decreasing order of the respective classifications, after dealing with possible equality of classifications. If two candidates have the same final classification, the candidate with the best classification obtained in a) of 12.1.1. will be ranked first; if the final classifications are still the same, the candidate with the best classification obtained in b) of 12.1.1. will be ranked first; if the final classifications are still the same, the candidate with the best classification obtained in c) of 12.1.1. will be ranked first. If the final classifications are still the same, the evaluation panel will vote, with the President of the evaluation panel having quality vote.

**13. Composition of the Jury:**

The evaluation panel proposed by the research projects Principal Investigators and appointed by dispatch of the ISEP President, according to article 13 of the Hiring Regulation, has the following composition:

President: Dr. Zita Maria Almeida Vale, Professora Coordenadora Principal;

Effective vowels: Dr. Carlos Fernando da Silva Ramos, Professor Coordenador Principal, and Dr. Sérgio Filipe Carvalho Ramos, Professor Adjunto;

First substitute vowel: Dr. Luis Filipe Oliveira Gomes, Investigador;

Second substitute vowel: Dr. Maria Goreti Carvalho Marreiros, Professora Adjunta.

When the President of the evaluation panel is unavailable, she will be substituted by the first vowel, which in case of unavailability will be substituted by the first substitute vowel.

**14.** Candidates with a degree of disability equal to or greater than 60%, recognized under the terms of the law, are guaranteed the right stipulated in article 3 of Decree-Law no. 29/2001, of February 3rd, according to the number of jobs to be filled in the competitive procedure, and they must declare, in the admission application, under oath, the respective degree of incapacity, the type of disability and the means of communication/expression to be used in the selection process.

**15.** In compliance with h) of the 9<sup>th</sup> article of the Portuguese's Constitution, the Public Administration, while hiring entity, actively promotes a policy of equality between men and women, in accessing employment and in the professional

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progression, strictly ensuring to avoid all and any way of discrimination. According to Decree-Law no. 29/2001, of 3rd of February, the candidate with disability will be preferred when the same classification is obtained, which will prevail upon any other legal classification.

**16.** Protection of Personal Data: in the application, the candidate provides the information and the necessary consent for the processing of personal data, at the time of application and for the strict purpose of collection, and integration into the competitive procedure database and for the duration of the competitive procedure, in accordance with the General Data Protection Regulation.

**16.1** The documents presented within the scope of this tender procedure are administrative documents, so access to them will be in compliance with Law No. 26/2016, of August 22, in its current wording.

**17. Publication of the procedure:**

The publication of the present procedure will be made according to number 2 of article 11 of Hiring Regulation, in its current wordings, as follows in the:

- a) 2nd series of Diário da República;
- b) Bolsa de Emprego Público, in [www.bep.gov.pt](http://www.bep.gov.pt), in the 1st working day after the publication in Diário da República;
- c) Fundação para a Ciência e a Tecnologia, I.P.'s website in Portuguese and English;
- d) ISEP's website, in [www.isep.ipp.pt](http://www.isep.ipp.pt).

ISEP, May 21th 2024