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GECAD-PES_2023-01

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Apply

30/01/2023

Job Information

Organisation/Company	Instituto Superior de Engenharia do Porto
Department	Human Resources Department
Research Field	Engineering » Computer engineering
Researcher Profile	First Stage Researcher (R1)
Country	Portugal
Application Deadline	13/02/2023 - 23:00 (Europe/Lisbon)
Type of Contract	Other
Job Status	Other
Is the job funded through the EU Research Framework Programme?	Not funded by an EU programme
Is the Job related to staff position within a Research Infrastructure?	No

Offer Description

1.- Basic information

1.1 Title

6 researchers for a “Bolsa de Iniciação à Investigação” in the area of Computer Engineering, for GECAD (GECAD–EEA/00760), with reference GECAD-PES_2023-01.

1.2 Offer Description

GECAD (GECAD–EEA/00760), is recruiting 6 researchers for a “Bolsa de Iniciação à Investigação” in the area of Computer Engineering, financed by national funds through FCT/MCTES (PIDDAC) and co-financed, when applicable by the “Fundo Europeu de Desenvolvimento Regional” (FEDER) in the context of PT2020, in the context of the PRECISE projet (Ref^a: PTDC/EEI-EEE/6277/2020), with reference GECAD-PES_2023-01, where the following conditions apply:

Duration of the grant: 3 months duration, eventually to be renewed according to the applicable laws, the project execution and respective budget, starting expectingly on March 2023.

The 6 selected researchers will develop the following:

Researcher n^o 1: Python library for the control and monitoring of energy batteries

Researcher n^o 2: Distributed computing environment for the deployment of computational agents

Researcher n° 3: Unifier System for Energy Community Management Algorithms

Researcher n° 4: PEAK-ACL - Multi-agent communication module compliant with FIPA standards

Researcher n° 5: Use of Streaming Machine Learning models to detect profiles and contexts

Researcher n° 6: Pre-processing of data for intelligent models and systems

The work plan will be carried out on an exclusive basis, according to the Regulation of Research Grants of the Foundation for Science and Technology, approved by Regulation no. 950/2019, and the Regulation of ISEP Research Grants.

The work plan involves the following tasks:

- Design and computational implementation of methods, algorithms, and computational applications;
- Integration and reformulation of existing and developed models;
- Integration of computer applications with physical resources, namely for data acquisition and actuation;
- Participation in meetings with supervisors and project teams;
- Laboratory activities, including prototyping, and preparation of case studies, simulation studies, and the respective analysis and presentation of results;
- Availability of all the source codes regarding the developed software, within the scope of the work plan, and the proper manual documentation;
- Reports and scientific papers preparation, including the final activity report;
- Communication and dissemination activities.

The applicable laws are Research Fellowship Statute, approved by Law no. 40/2004, of 18 August; Regulation of Research Grants of the Foundation for Science and Technology, approved by Regulation no. 950/2019, published in the 2nd series - Part C, of the Diário da República, of December 16, 2019, Regulation of ISEP Research Grants, Decree-Law No. 66/2018, published in Diário da República No. 157/2018, Series I of 16 August, which approves the legal regime for the recognition of academic degrees and higher education diplomas awarded by foreign higher education institutions and Decree-Law No. 60/2018, of 3 August, which simplified administrative procedures necessary for carrying out research and development activities, all in their current wording.

The candidates to be selected will be scientifically supervised by Prof. Zita Vale.

The workplace is at GECAD – the Research Group on Intelligent Engineering and Computing for Advanced Innovation and Development in the following address: Rua Dr. António Bernardino de Almeida, 431. 4200-072 Porto – Portugal.

Applications should be sent, mandatorily, by email to zav@isep.ipp.pt, with cc to csr@isep.ipp.pt and lfg@isep.ipp.pt, with the following documents:

- a. Motivation letter;

- b. Curriculum Vitae, including personal address, email, and phone;
- c. Copy of the civil, tax and, when applicable, social security identification document(s);
- d. Document proving the country of residence, residence permit or other legally equivalent document, when applicable, valid on the start date of the scholarship, with this condition being verified only during the scholarship contracting phase;
- e. Proof of enrollment in a cycle of studies of bachelor's degree;
- f. Declaration by the candidate listing the contracts and execution of past research initiation, research or post-doctoral research grants, which must include the type of grant and the respective start and end dates;
- g. Documents of a scientific or technical nature, of which the candidate is the author, which allow the evaluation of activities and previous results of the candidate relevant to the respective application;
- h. Other documents that the candidate finds relevant.
- i. Certificate of Qualifications/Document proving the ownership of the academic degree and diploma, of the respective recognition when it has been awarded by foreign higher education institutions or document proving the request for recognition;

The documents referred to in c) can be replaced, at the option of the candidate, by the presentation in person at the financing entity, which will keep the elements contained therein that are relevant for the validity and execution of the contract, including the civil, tax identification numbers and social security, as well as the validity of the respective documents.

If the qualification has been granted by a foreign higher education institution, it must comply with the provisions of Decree-Law No. 66/2018, of August 16, and any formalities established therein must be fulfilled until the act of contracting.

Application period: from January 31 to February 13, 2023.

The candidates will be individually notified by email message on the final evaluation results.

1.3 Researcher Profiles

First Stage Researcher (R1)

2. - Required Education Level

2.1 Skills/Qualifications

Strong scientific background and experience in the call scientific area. Good team-work skills. Authorship of scientific papers.

2.2 Specific Requirements

Being enrolled in a course of Computer Engineering or similar area, experience and motivation for the integration and development of computer applications and knowledge of spoken and written English. Previous relevant work and scientific research experience in the domains of this “Bolsa de Iniciação à Investigação”.

3. - Required Languages

Language: English

Level: Excellent

4. - Required Research Experience

4.1 Benefits

Monthly value of the grant: € 486.12/month, paid by bank transfer (according to the table of stipends of FCT: <http://www.fct.pt/apoios/bolsas/valores.phtml.en>), supported through the PADs n.º C58616, C58617, C58618, C58619, C58620 e C58621.

4.2 Eligibility criteria

Required profile: Enrollment in a course of Computer Engineering or similar area, with at least 100 credits already completed, experience and motivation for the integration and development of computer applications and knowledge of spoken and written English.

Preferred profile: Good ability to work in teams and experience in the development of computer applications, motivation for the development of intelligent solutions based on artificial intelligent models, experience in integrative projects for the development of software systems in a team and motivation for the areas of artificial intelligence and energy management.

Candidates must be enrolled in a bachelor's degree.

4.3 Selection process

The selection method will take into account the following components: Curriculum vitae evaluation (60%) and interview (40%). The interview will be conducted in English.

Evaluation panel:

Professora Doutora Zita Maria Almeida Vale (President);

Professor Doutor Carlos Fernando da Silva Ramos;

Doutor Luís Filipe de Oliveira Gomes;

and Doutor Pedro Nuno da Silva Faria (supplementary).

4.4 Complaint and appeal procedures

If the result is unfavorable, the candidates have a period of 10 working days, after the results of the evaluation of applications are published, to, if they so wish, make their opinion known in a prior hearing of interested parties, under the terms set forth in the Administrative Procedure Code

4.5 Additional comments

ISEP may opt to select the approved and non-selected candidates in the scope of the current call for contracting additional researchers for the same project, in case that the selected candidate doesn't accept the position.

Requirements

Research Field	Engineering » Computer engineering
Education Level	Undergraduate

Additional Information

Work Location(s)

Number of offers available	6
Company/Institute	Instituto Superior de Engenharia do Porto
Country	Portugal
State/Province	Porto
City	Porto
Postal Code	4249-015
Street	Rua Dr. António Bernardino de Almeida 431
Geofield	<div style="border: 1px solid black; height: 60px; width: 100%;"></div>



Where to apply

E-mail zav@isep.ipp.pt

Contact

State/Province Porto

City Porto

Street Rua Dr. António Bernardino de Almeida 431

Postal Code 4249-015

E-Mail info-projetos@isep.ipp.pt
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