30/11/2021

PIANISM_2021-03

Where to apply

Application Deadline: 16/12/2021 23:00 - Europe/London

Contact Details

Where to send your application.

COMPANY

Instituto Superior de Engenharia do Porto

E-MAIL

mgt@isep.ipp.pt

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY	**COUNTRY**
Instituto Superior de Engenharia do Porto	Portugal
DEPARTMENT	**CITY**
Human Resources Department	Porto
ORGANISATION TYPE	**STATE/PROVINCE**
Higher Education Institute	Porto
WEBSITE	**POSTAL CODE**
https://www.isep.ipp.pt	4249-015

E-MAIL	**STREET**
info-projetos@isep.ipp.pt	Rua Dr. António Bernardino de Almeida 431

ORGANISATION/COMPANY
Instituto Superior de Engenharia do Porto

LOCATION
Portugal › Porto

RESEARCH FIELD
Engineering › Industrial engineering

TYPE OF CONTRACT
Other

RESEARCHER PROFILE
First Stage Researcher (R1)

JOB STATUS
Other

APPLICATION DEADLINE
16/12/2021 23:00 - Europe/London

OFFER DESCRIPTION

It is open the call for 2 positions for Research Fellowships ("Bolsas de Investigação") in the area of Computer Engineering or Industrial Management and Engineering, for bachelors, for PIANISM (Ref.ª: NORTE-01-0247-FEDER-040125) funded by national funds through the COMPETE2020 Program and co-financed by the European Regional Development Fund (FEDER) under the PT2020 partnership agreement, where the following conditions apply:

1. Scientific Area

Computer Engineering or similar

2. Admission Requirements

Minimum profile required: BSc degree in computer engineering or Industrial Management and Engineering, high level of computational programming skills, experience, and motivation for development of informatic applications, writing and speaking proficiency in English. Previous relevant work and scientific research experience in computational applications with focus on Artificial Intelligence methods for Planning and Machine Learning, with projects developed in these areas. Experience or interest in Machine Learning research and in the development of intelligent systems based on Artificial Intelligence techniques. Strong motivation and willingness to learn.

Preferred profile: Experience in the application of Machine Learning and in the design of intelligent decision support systems in the field of predictive maintenance. Previous work experience involving activities in intelligent systems, modeling, simulation, and heuristic optimization will also be valued.

3. Duration

The scholarship will have a duration of 3 months, probably starting in January 2022, and may be renewed according to the project's objectives and budget, up to the limit established by law, to be held on an exclusive basis, in accordance with the regulations for advanced training of human resources of the Foundation for Science and Technology and ISEP.

4. Workplan

The applicants should be motivated and experienced on computational methods for the use of Artificial Intelligence.

The work plan involves the following tasks:

- requirements and use cases specifications

- platform design

- Specification of the analytical and predictive software layer

- Application of Data Science techniques to sensor data and other industrial data sources

- Research and development of Machine Learning techniques for different predictive maintenance approaches, including failure prediction and detection

- Development of the intelligent analysis engine and evaluation of the developed models

- Implementation and validation of the Portuguese Pilot

- Participation and preparation of internal meetings and with partners (ISEP, Portuguese partners or international partners) locally or abroad

- Preparation of scientific reports and papers;

- Communication and dissemination activities.

5. Legislation

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 and Regulation of Research Grants of ISEP, all in their current writing.

6.　Supervision and Workplace

The candidates to be selected will be scientifically supervised by Prof. Goreti Marreiros

The workplace is at 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.

7.　Benefits

Monthly value of the grant: € 835.98/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 PAD n. º C52271, C52272

8.　Selection process and Jury

The selection method will consider the following components: Curriculum vitae evaluation (50%), bachelor grade (30%) and interview (20%).

Evaluation panel:

Professor Maria Goreti Carvalho Marreiros (President);

Professor Ana Almeida (Vogal);

Professor João Carneiro (Vogal),

Professor Doutor Luiz Faria (supplementary).

9.　Applications

Applications should be sent, mandatorily, by email to mgt@isep.ipp.pt, with the following documents:

Curriculum Vitae;

graduation diplomas. In the case that the academic degree has been granted by a foreigner university, the applicant must submit the certificate of degree recognition in Portugal, or proof of respective application. All the requirements in the Decreto-Lei n.º 66/2018, de 16 de Agosto must be accomplished until de contract signature date.

Motivation letter;

Certificate of being enrolled in a MSc degree program;

10. Deadline for applications

Application period: from 2 nd to December 16 th .

11. Results communication

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

12. CLAIM AND APPEAL PROCEDURES

If the result is unfavorable, candidates have a period of 10 working days, after the results communication, if they so wish, in the context of a prior hearing of interested parties, under the terms provided for in the Code of Administrative Procedure.

A hierarchical appeal may be filed against the final decision referred to in the previous numbers, to the President of ISEP, within 15 working days after the respective notification.

13. 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 does not accept the position.

More Information

ADDITIONAL INFORMATION

Benefits

Monthly value of the grant: € 835.98/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 PAD n. º C52271, C52272

Selection process

The selection method will consider the following components: Curriculum vitae evaluation (50%), bachelor grade (30%) and interview (20%).

Evaluation panel:

Professor Maria Goreti Carvalho Marreiros (President);

Professor Ana Almeida (Vogal);

Professor João Carneiro (Vogal),

Professor Doutor Luiz Faria (supplementary).

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 does not accept the position.

REQUIREMENTS

Offer Requirements

REQUIRED EDUCATION LEVEL
Engineering: Bachelor Degree or equivalent

REQUIRED LANGUAGES
ENGLISH: Excellent

Skills/Qualifications

Experience in the application of Machine Learning and in the design of intelligent decision support systems in the field of predictive maintenance. Previous work experience involving activities in intelligent systems, modeling, simulation, and heuristic optimization will also be valued.
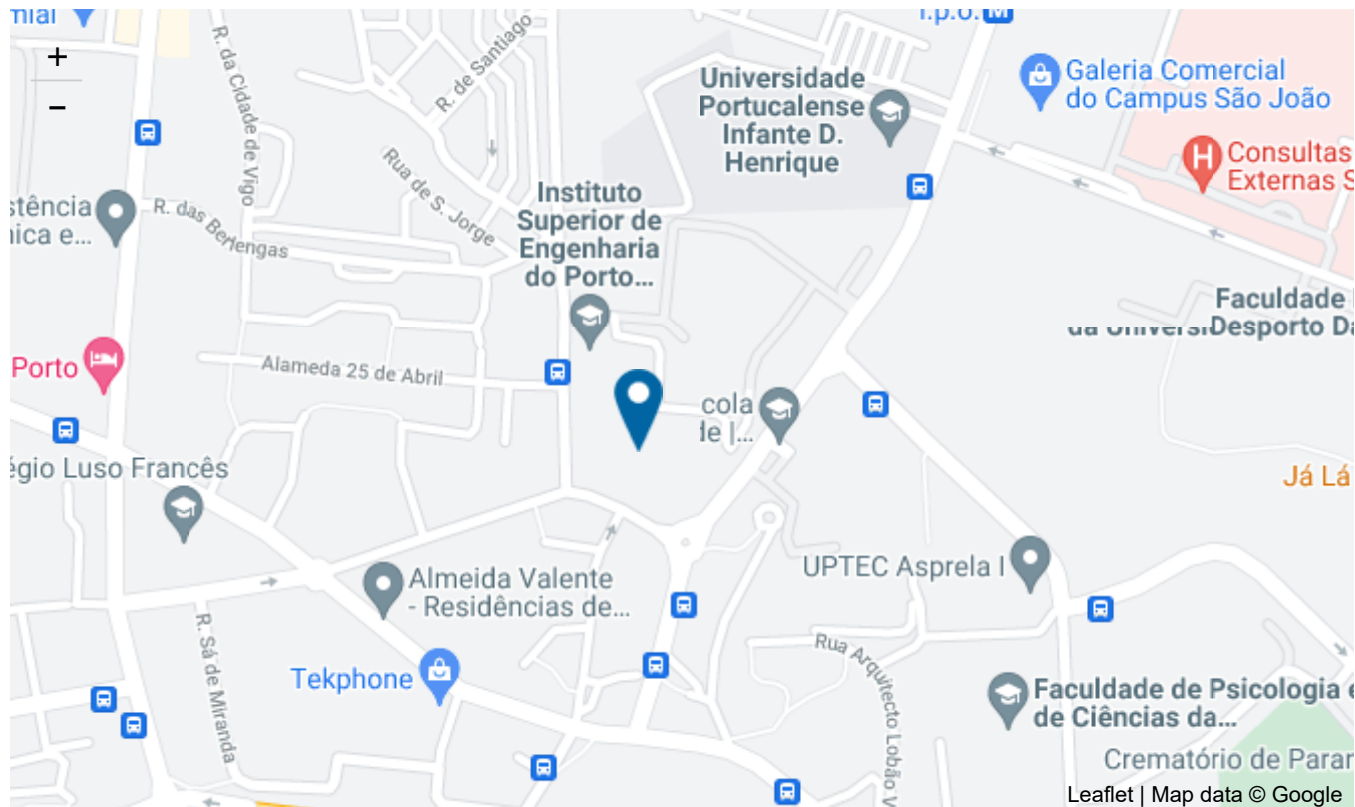
Specific Requirements

High level of computational programming skills, experience, and motivation for development of informatic applications, writing and speaking proficiency in English. Previous relevant work and scientific research experience in computational applications, with focus on Artificial Intelligence methods for Planning and Machine Learning, with projects developed in these areas. Experience or interest in Machine Learning research and in the development of intelligent systems based on Artificial Intelligence techniques. Strong motivation and willingness to learn.

Map Information

Leaflet | Map data © Google

📍 Job Work Location   ℹ️ Personal Assistance locations

WORK LOCATION(S)

2 position(s) available at
Instituto Superior de
Engenharia do Porto
Portugal
Porto
Porto
4249-015
Rua Dr. António Bernardino
de Almeida 431

EURAXESS offer ID: 713921

Disclaimer:

The responsibility for the jobs published on this website, including the job description, lies entirely with the publishing institutions. The application is handled uniquely by the employer, who is also fully responsible for the recruitment and selection processes.

Please contact support@euraxess.org if you wish to download all jobs in XML.