Instituto Superior de Engenharia do Politécnico do Porto – ISEP, Project SPEAR is recruiting 1 researcher with a MSc degree in Informatics or similar scientific field. The project concerns research activity in the area of intelligent management of distributed energy resources in a competitive environment, including monitoring and control. This project is co-funded by Portugal 2020 "Fundo Europeu de Desenvolvimento Regional" (FEDER) through PO CI.

1.SCIENTIFIC AREA

Engineering

2.ACADEMIC DEGREE

MSc in Informatics or similar

3.DURATION OF THE GRANT

From September 2019 until December 2019 (3 months duration), possibly to be renewed according to the project execution and the respective budget.

4.ACTIVITIES AND WORKPLAN:

We are looking for researchers with scientific background, research experience and motivation for real-time optimization of energy consumption and of energetic resources usage.

The work plan involves the following tasks:
- Design and computational implementation of methods, algorithms, and computational applications;
- Integration and reformulation of existing and developed computational applications;
- Simulation and emulation of the solution proposed in the scope of the project;
- Reports and scientific papers preparation;
- Laboratorial and prototyping activities, including case studies preparation, simulation, and result analysis and presentation;
- Communication and dissemination activities.

5.LEGISLATION AND REGULATIONS

Lei n.º 40/2004, de 18 de agosto, alterada e republicada pelo Decreto-Lei n.º 202/2012, de 27 de agosto, pela Lei n.º 12/2013, de 29 de janeiro e ainda pelo Decreto-Lei n.º 89/2013, de 9 de julho; Regulamento n.º 73/2015, de 16 de fevereiro (publicado no DR n.º 32, Série II, 2015-02-16) – Regulamento de Bolsas de Formação Avançada do ISEP. Regulamento de Bolsas de Investigação da FCT (PDF) | Publicação em Diário da República: Regulamento de Bolsas de Investigação da FCT, I. P., aprovado pelo Regulamento nº 234/2012, publicado na II Série do Diário da República de 25 de junho de 2012, alterado e republicado pelo Regulamento nº 326/2013, publicado na II Série do Diário da República de 27 de julho de 2013 e alterado pelo Regulamento nº 339/2015, publicado na II Série do Diário da República de 17 de junho de 2015, e pelo Regulamento nº 137-A/2018, publicado na II Série do Diário da República de 27 de fevereiro de 2018.

6.SUPERVISION AND WORKPLACE

The candidates to be selected will be scientifically supervised by Prof. Carlos Ramos.
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

7.REMUNERATION

Monthly value of the grant: € 989.70/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.ºC44396.

8. CANDIDATE SELECTION METHOLOGY AND EVALUATION PANEL

Only candidates that have presented the complete set of application documents will be admitted. 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: Prof. Zita Maria Almeida Vale, Prof. Sérgio Filipe Carvalho Ramos, and Doctor Pedro Nuno Silva Faria. Members of the substitute panel: Prof. Carlos Fernando da Silva Ramos and Prof. Maria Goreti Carvalho Marreiros.

9. RESULTS PUBLICATION AND NOTIFICATION

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

10. PROFILE

Academic Degree: MSc degree in Informatics or similar area.
Minimum profile required: Solid scientific background and relevant research experience in the respective graduation field. Writing and speaking proficiency in English. Good skills for team work. Previous research experience involving real-time management and analysis of energy related data, modelling, simulation, including the use of artificial intelligence techniques. Good programming skills and experience in the development of computer applications. Authorship of scientific papers in the targeted research fields.
Preferred profile: Experience in prototypes, involving software and hardware in the energy field.

11. APPLICATION PERIOD AND APPLICATION OF DOCUMENTS

Application period: from 22nd august to 04th September 2019.
Application Documents: Curriculum vitae; graduation diplomas; document with course marks; copy of any previously published works that are relevant for the application evaluation. An application letter with the fellowship reference (SPEAR_2019-02) should be included, indicating clearly the motivation of the application and the full contact information (as minimum: email address, mobile phone number, and postal address) of the candidate. All the documents prepared by the candidate for the application should be written in English. Documents should be sent to pnf@isep.ipp.pt and to GECAD to the following address:
GECAD (Research Group on Intelligent Engineering and Computing for Advanced Innovation and Development)
ISEP/IPP
Rua Dr. António Bernardino de Almeida, 431
4200-072 Porto – Portugal

12. ADDITIONAL INFORMATION

Can be obtained by phone +351-228340511 or by email pnf@isep.ipp.pt

13. SELECTION RESERVATION

GECAD 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, for a period of 18 months, after the communication of the current call results to the candidates.