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Instituto Superior de Engenharia do Porto - ISEP

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1. Descrição do cargo/posição/bolsa 1. Job description

Job:

BOLSA DE INVESTIGAÇÃO PARA MESTRE

Job/Fellowship Reference: IoTalentum_2020-01

Main research field: Engineering

Sub research field: Electronic engineering

Job summary:

Instituto Superior de Engenharia do Porto – ISEP is recruiting 1 researcher for a “Bolsa de Investigação” in the areas of Computer Engineering, Power and Energy Engineering, and similar areas. For the project IoTalentum - GA 953442, funded by the program H2020-MSCA-ITN-2020, with reference IoTalentum_2020-01,

Job description:

Instituto Superior de Engenharia do Porto – ISEP is recruiting 1 researcher for a “Bolsa de Investigação” in the areas of Computer Engineering, Power and Energy Engineering, and similar areas. For the project IoTalentum - GA 953442, funded by the program H2020-MSCA-ITN-2020, with reference IoTalentum_2020-01, applying the following conditions:

1. SCIENTIFIC AREA
Engineering

2. ELIGIBILITY CONDITIONS

The candidates must attain the following conditions:

- a) Owning a MSc degree in Computer Engineering, Power and Energy Engineering, and similar areas;
- b) Not owning a PhD;
- c) Being well motivated to pursue PhD work in the topic of “IoT for smart homes in the context of smart grids” and to submit the respective thesis in order to obtain the PhD degree before the deadline to be defined in the PhD workplan;
- d) Being in the first year of career development at the hiring date;
- e) Comply with the European Commission’s mobility rule, meaning at the time of recruitment by the host organization, they must not have resided or carried out their main activity (work, studies, etc.) in the country of the host organization for more than 12 months in the 3 years immediately before the starting employment contract date. Compulsory national service and/or short stays such as holidays are not taken into account.
- f) To be proficient in English language;
- g) Have good programming skills, experience and motivation for the developing of informatic applications.

Preferential profile: Good knowledge about artificial intelligence, Ciber-physical systems, IoT, and Smart Cities.

It must be respected the conditions available in

http://www.iotalentum.eu/sites/default/files/Guide_for_applicants_v_1_0.pdf .

3. DURATION

The scholarship will have a 12 month duration, beginning in April 2021, and can be renewed according to the project execution and respective budget, and other legal rules.

4. OBJECTIVE AND WORKPLAN

The activities of the workplan include to develop an architecture for IoT devices in smart homes compliant with IoTalentum access network for efficient communications in smart grids paradigm. To test different IoT devices for energy consumption monitoring and control to support the activation of demand response events, compliant with IoTalentum infrastructure. Integration and testing of IoTalentum infrastructure (particularly the smart-home architecture designed) in DREAM-GO mock-up.

The workplan includes the following tasks:

- a) Design and computational implementation of methods, algorithms, and computational applications;
- b) Integration and reformulation of existing and developed computational applications;
- c) Integration computational applications with physical resources, namely for data acquisition and control;
- d) Active participation in meetings with project partners of other research and development activities;

- e) Reports and scientific papers preparation;
- f) Laboratorial and prototyping activities, including case studies preparation, simulation, and result analysis and presentation;
- g) Communication and dissemination activities.

5. LEGISLAÇÃO E REGULAMENTAÇÃO APLICÁVEL

Estatuto do Bolseiro de Investigação, aprovado pela Lei n.º 40/2004, de 18 de agosto, in its recent version, the Regulamento de Bolsas de Investigação da Fundação para a Ciência e Tecnologia, aprovado pelo Regulamento n.º 950/2019, de 16 de dezembro (<https://www.fct.pt/apoios/bolsas/regulamento.phtml.pt>); Regulamento de Bolsas de Investigação do ISEP in its current version.

6. ORIENTAÇÃO CIENTÍFICA E LOCAL DE TRABALHO

The work will be developed in ISEP, Rua Dr. António Bernardino de Almeida, 431, 4200-072 Porto –Portugal, in the facilities normally used for the project, scientifically supervised by Prof. Zita Vale.

7. REMUNERATION

Monthly value of the grant: € 1 074,64 /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. C49887. the scholarship may include other components, according to artigo 18º do RBI do ISEP, namely:

- 1) A supplement in a value to be defined according, namely, to the experience of the researcher and the complexity and scope of the workplan, respecting the n.º 4 do Artigo 13.º do Estatuto do Bolseiro de Investigação;
- 2) Mobility allowance, with value of €600/month.

8. CANDIDATE SELECTION METHODOLOGY AND EVALUATION PANEL

The selection method will take into account the following components:

- a) Academic Formation (40%): Evaluated from applicant CV (included in the Application Form) and certificates/evidence of merits. The participation of the applicant in European mobility programs (e.g. ERASMUS+) will be positively considered;
- b) Professional and/or research experience (30%): Evaluated from applicant CV (included in Application Form), certificates/evidence of merits and (sometimes) face-to-face interview;
- c) Languages (10%): Evaluated from applicant CV (included in Application Form), certificates/evidence of merits and (sometimes) face-to-face interview;
- d) Letter of motivation (10%): Each applicant has to submit a letter of motivation showing the interest in the project and indicating her/his research interest. The letter of motivation is included in the Application Form;
- e) References (10%): Each applicant can indicate two references and submit a letter of support from them. Selection committees can contact references. Evaluation panel: Professora Doutora Zita Maria Almeida Vale (President); Professor Doutor Carlos Fernando da Silva Ramos (Vogal); Doutor Pedro Nuno da Silva Faria (Vogal); Doutor Tiago Manuel Campelos Ferreira Pinto (Vogal suplente).

9. APPLICATION PROCEDURE

Applications must be done to zav@isep.ipp.pt with cc to csr@isep.ipp.pt and pnf@isep.ipp.pt, with the following documents (in Portuguese or English):

- Curriculum Vitae;
- IoTalentum application form (<http://www.iotalentum.eu/vacancies>);
- Graduation diplomas and document with course marks
- Copy of any previously published works that are relevant for the application

In the case that the Master degree was obtained outside Portugal, it should respect the specified in Decreto-Lei n.º 66/2018, de 16 de agosto, and all the requirements there stated must be verified in the date of the contract signature.

10. APPLICATION PERIOD

Applications can be submitted between 19th January and 1st February de 2021.

11. RESULTS PUBLICATION AND NOTIFICATION

The candidates will be notified by email message on the final evaluation results, for the contact indicated in the application.

12. COMPLAINT PROCEDURE

In case that the candidates don't agree with the results, they have a 10 working days deadline to pronounce themselves, if they want, counting after the communication of the results. After final decision, it can be applied a superior complaint to the ISEP President, accounting 15 working days from the respective notification.

13. SELECTION RESERVATION

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, after the communication of the current call results to the candidates.

Vacant posts: 1

Type of contract: Other

Job country: Portugal

Job city: PORTO

Job company/institute: ISEP

Application deadline: 01 Fevereiro 2021

(The Application's deadline must be confirmed on the Job Description)

[↑ Top of page](#)**2. Dados de contactos da organização**
2. Organization contact data**Organization/institute:** Instituto Superior de Engenharia do Porto - ISEP**Address:**Rua Dr. António Bernardino de Almeida
Porto - 4200 - 072 Porto
Portugal**Email:** info-sp@isep.ipp.pt**Website:** *not available*[↑ Top of page](#)**3. Habilitações académicas**
3. Required education Level**Empty**[↑ Top of page](#)**4. Línguas exigidas**
4. Required languages**Empty**[↑ Top of page](#)**5. Experiência exigida em investigação**
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