

## ANÚNCIO PARA ATRIBUIÇÃO DE BOLSA DE INVESTIGAÇÃO

INVALUE\_2016-02

Instituto Superior de Engenharia do Politécnico do Porto - ISEP Project INVALUE (ANI|P2020 017990) is recruiting 2 researchers with a MSc degree in Informatics or similar. The project concerns research activity in the development of a platform that supports the overarching data management processes in today's industrial domains across the whole value chain of information, namely in terms of preventive maintenance and eco-efficiency. This project is co-funded by Portugal 2020 "Fundo Europeu de Desenvolvimento Regional" (FEDER) through Programa Operacional Regional do Norte (NORTE 2020). The following conditions are applied to this recruitment process:

### 1. CIENTIFIC AREA

Engineering

### 2. ACADEMIC DEGREE

BSc degree in Informatics or similar

### 3. DURATION OF THE GRANT

From November 1st 2016 until January 31th 2017 (03 months duration), eventually to be renewed according to the project execution and respective budget.

### 4. ACTIVITIES AND WORKPLAN:

The candidates to be selected will participate in the project activities.

The work plan involves the following tasks:

- Design and computational development of methods, algorithms, and computational applications, namely in the areas preventive maintenance and eco-efficiency, including the use of Artificial Intelligence concepts, big data and data mining techniques;
- Participation in the project scientific activities, namely concerning the development of intelligent engineering systems
- Preparation and participation in distance and face to face meetings, involving project teams (ISEP, Portuguese partners and international partners), locally or abroad;
- Reports and scientific papers preparation;
- Laboratorial and prototyping activities, including case studies preparation, simulation, and result analysis and presentation;
- Communication and dissemination activities;
- Organization activities.

### 5. LEGISLATION AND REGULATIONS

"Lei nº40/2004, de 18 de Agosto (Estatuto do Bolseiro de Investigação Científica) e Regulamento de Bolsas e Investigação da Fundação para a Ciência e a Tecnologia em vigor ([www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf](http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf)), modified and e republished by Decree-law no. 202/2012, of 27 August and modified by Decree-law no. 233/2012, of October and by Law no. 12/2013, of 29 January; Regulation no. 405/2010, May.6.2010 (published in "Diário da República" no. 88, II Serie, 06.May.2010); "Despacho IPP-P-002-2013 - Regulamento de Bolsas de Projetos"; "Regulamento de Bolsas de Investigação da Fundação para a Ciência e a Tecnologia, I.P. – 2013.

### 6. SUPERVISION AND WORKPLACE

The candidates to be selected will be scientifically supervised by Professor Goretí Marreiros..

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

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### 7. REMUNERATION

As defined by FCT (€ 980.00/month), according to the table of stipends of the country (available in <http://www.fct.pt/apoios/bolsas/valores.phtml.en>), paid by bank transfer.

### 8. CANDIDATE SELECTION METHODOLOGY 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: final classification of the BSc (15%) and of the MSc degree (35%), curriculum vitae evaluation (50%). In case of doubts, an interview can be undertaken and it will be conducted in English. In this case, the following elements will be taken into consideration: the final classification of the BSc (10%), and of the MSc (20%), the curriculum vitae evaluation (50%), and the interview (20%).

Jury members: Prof. Maria Goreti Carvalho Marreiros (panel coordinator), Prof. Zita Maria Almeida do Vale, and Prof. Isabel Cecília Correia Silva Praça Gomes Pereira. Members of the substitute panel: Prof. Sérgio Filipe Carvalho Ramos and Prof. Carlos Fernando da Silva Ramos.

### 9. RESULTS PUBLICATION AND NOTIFICATION

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

### 10. CANDIDATURE

BSc degree in Informatics or similar.

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 work experience in research activities involving intelligent systems, modelling, simulation, and heuristic optimization. Good programming skills and experience in the development of artificial intelligence based computer applications.

Preferred profile: Experience with data mining algorithms and big data platforms.

### 11. APPLICATION PERIOD AND APPLICATION OF DOCUMENTS

From 26th September until 10th October 2016.

Curriculum vitae; graduation diplomas; document with courses marks; copy of any previously published works that are relevant for the application evaluation. An application letter with the fellowship reference (INVALUE\_2016-02) should be included, indicating clearly the motivation of the applicant 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 [mgt@isep.ipp.pt](mailto:mgt@isep.ipp.pt) and additionally they should also be sent to GECAD to the following address:

Prof. Goreti Marreiros

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. 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.