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Resumo do anúncio:

GECAD (GECAD–EEA/00760) is recruiting 5 researchers with a BSc degree in Electrical Engineering or similar. This call concerns research activities developed in GECAD, namely in the areas of Power and Energy Systems and Ambient Intelligence. This project is funded by Portuguese funds through FCT/MEC (PIDDAC).

Texto do anúncio

Referência: GECAD_2015-03

Área científica genérica: Engineering

Área científica específica: Electrical and Computer Engineering or similar

GECAD (GECAD– EEA/00760 com o apoio financeiro da FCT/MEC através de fundos nacionais e quando aplicável cofinanciado pelo FEDER, no âmbito do Acordo de Parceria PT2020) is recruiting 5 researchers with a BSc degree in Electrical Engineering or similar, to collaborate in the development of Intelligent Engineering Systems. This call concerns research activity developed in GECAD, namely in the areas of Power and Energy Systems and Ambient Intelligence. We are looking for researchers with experience in areas such as power and energy systems modelling and simulation, smart grids, distributed energy resources, demand response, data mining techniques, big data, optimization, planning, scheduling, intelligent interaction, ontologies and knowledge representation, affective computing, ubiquitous computing, context awareness, cyber-physical systems and in their application to real world engineering problems. This project is funded by Portuguese funds through FCT/MEC (PIDDAC). The following conditions are applied to this recruitment process:

1. Duration of the Grant: from October 1th 2015 until December 31th 2015 (03 months duration), eventually to be renewed according to the project execution and respective budget.

2. Activities and workplan:

The candidates to be selected will participate in GECAD ongoing projects, namely concerning the development of intelligent engineering systems. The selected candidates are also expected to actively participate in the preparation of international and national project proposals.

The work plan involves the following tasks:

- Design and computational development of methods, algorithms, and computational applications, namely in the areas of Power and Energy Systems and Ambient Intelligence, including the use of Artificial Intelligence concepts and techniques;
- Integration and reformulation of existing and developed computational applications;
- Participation in GECAD on-going projects and other scientific activities, namely concerning the development of intelligent engineering systems, including the preparation and participation regarding internal meetings and meetings with partners (locally or abroad) and secondments in partner institutions;
- Reports and scientific papers preparation;
- Preparation of project proposals;
- Laboratorial and prototyping activities, including case studies preparation, simulation, and result analysis and presentation;
- Communication and dissemination activities;
- Organization activities.

3. Supervision: The candidates to be selected will be scientifically supervised by Professor Zita Vale.

4. Academic Degree: BSc degree in Electrical Engineering or similar

Minimum profile required: Solid scientific background and some research experience in the respective graduation field. Writing and speaking proficiency in English. Good skills for team work.

Preferred profile: 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. Experience in real and/or laboratorial prototypes, involving software and hardware. Authorship of scientific papers in the targeted research fields.

5. Monthly maintenance stipend: As defined by FCT (€ 745.00/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.

6. Workplace: 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. 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), 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.

8. Candidate selection methodology: 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 (50%), 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 (30%), the curriculum vitae evaluation (50%), and the interview (20%).

9. Evaluation panel: Prof. Zita Maria Almeida do Vale (panel coordinator), Prof. Maria Goreti Carvalho Marreiros 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.

10. Results publication and notification: The candidates will be individually notified by email message on the final evaluation results.

11. Application Documents: Curriculum vitae; graduation diploma; document with courses marks; copy of any previously published works that are relevant for the application evaluation. An application letter with the fellowship reference (GECAD_2015-03) 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 zav@isep.ipp.pt and additionally they may also be sent 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. Application period: from 12th until 31th August 2015.

13. Additional information can be obtained by phone +351-22-8340511 or by email zav@isep.ipp.pt

14. Selection backup:

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.