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For Organisations

Instituto Politécnico do Porto - GECAD (Grupo de Investigação em Engenharia e Computação Inteligente para a Inovação e o Desenvolvimento)
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  5. Required research experience

  Job/Fellowship Status

  Information for FCT

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Unique identifier: 9181618c-8e72-43b1-8064-a64e597019f4

English

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

Job:
Bolsa de Mestre

Job/Fellowship Reference: GREEDI_2016-04

Main research field: Engineering

Sub research field:

Job summary:

Instituto Superior de Engenharia do Politécnico do Porto - ISEP Project GREEDI (ANI|P2020 17822) is recruiting 2 researchers with a MSc degree in Electrical Engineering or similar. 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 Programa Operacional Competitividade e Internacionalização (PO CI).

Job description:

Instituto Superior de Engenharia do Politécnico do Porto - ISEP Project GREEDI (ANI|P2020 17822) is recruiting 2 researchers with a MSc degree in Electrical Engineering or similar, to collaborate in the development of Intelligent Engineering Systems. This project is co-funded by Portugal 2020, Fundo Europeu de Desenvolvimento Regional (FEDER) through Programa Operacional Competitividade e Internacionalização (PO CI). 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. The following conditions are applied to this recruitment process: 1. Duration of the Grant: from February 1st 2017 until April 30th 2017 (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 the project activities. 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 the project scientific activities, namely concerning the development of intelligent engineering systems, involving the required electrical, electronics, and telecommunication infrastructures; - 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. 3. Supervision: The candidates to be selected will be scientifically supervised by Professor Zita Vale. 4. Academic Degree: MSc degree in Electrical Engineering 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. Authorship of scientific papers in the targeted research fields, including papers in indexed journals. Preferred profile: Experience in real and/or laboratorial prototypes, involving software and hardware. 5. Monthly maintenance stipend: 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. 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 (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%). 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 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 (GREEDI_2016-04) 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 zav@isep.ipp.pt and additionally they should also be sent to GECAD to the following address: Prof. Zita Vale 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 30th December 2016 until 12th January 2017. 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.

Vacant posts: 2

Type of contract: Information not available

Job country: Portugal

Job city: Porto

Job company/institute: Instituto Superior de Engenharia do Porto

Application deadline: 12 Janeiro 2017
(The Application's deadline must be confirmed on the Job Description)

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2. Dados de contactos da organização
2. Organization contact data

Organization/institute: Instituto Politécnico do Porto - GECAD (Grupo de Investigação em Engenharia e Computação Inteligente para a Inovação e o Desenvolvimento)

Address:
GECAD - ISEP/IPP R. Dr. António Bernardino de Almeida, 431
Porto - P-4200-072 PORTO
Portugal

Email: zav@isep.ipp.pt

Website: http://www.gecad.isep.ipp.pt

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3. Habilitações académicas
3. Required education Level

Empty

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4. Línguas exigidas
4. Required languages

Empty

5. Experiência exigida em investigação
5. Required research experience

Empty