

ANÚNCIO PARA ATRIBUIÇÃO DE BOLSA DE INVESTIGAÇÃO

GECAD_2018-03



A research grant for a Master's degree in electrical engineering in the ambit of GECAD R&D Unit (UID/EEA/00760/2013 e UID/EEA/00760/2019), with the reference GECAD_2018-03, financed by national funds through FCT/MCTES, under follow conditions:

1.CIENTIFIC AREA

Engineering

2.ACADEMIC DEGREE

MSc degree in Electrical Engineering

3.DURATION OF THE GRANT

From January 2019 until June 2019 (06 months duration), eventually to be renewed according to the project execution and respective budget.

4.ACTIVITIES AND WORKPLAN:

We are looking for researchers with strong scientific background and motivation in electric distribution grid analysis, operation and planning, and reliability, namely in the context of the intensive use of distributed energy resources including distributed generation and electric vehicles. The candidates should have experience in the electric grid and its components modelling, considering optimization, uncertainty, and fuzzy approaches. Applicants should have experience dealing with the conception, development and computational implementation of solutions for large dimension real-world power systems problems. This project is funded by Portuguese funds through FCT/MCTES.

The candidate to be selected will participate in GECAD ongoing projects in the area of Power and Energy Systems, namely concerning the development of intelligent engineering systems.

The work plan involves the following tasks:

- Design and computational implementation of methods, algorithms, and computational applications, namely in the areas of Power and Energy Systems;
- Integration and reformulation of existing and developed computational applications;
- 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 Doctor Pedro Faria.

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

Monthly value of the grant: € 980.00/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.ºC41113.

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: Curriculum vitae evaluation (60%) and interview (40%). The interview will be conducted in English.

Jury members: Prof. Maria Goreti Carvalho Marreiros, Prof. Zita Maria Almeida Vale, and Doctor Pedro Nuno Silva Faria. 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.PROFILE

Academic Degree: MSc degree in Electrical Engineering

Minimum profile required: Strong scientific background and experience in the call scientific area. Writing and speaking proficiency in English. Good skills for team work. High level of computational programming skills, previous relevant scientific research experience, and authorship of relevant scientific publications.

Preferred profile: Previous publications of high quality journal papers as first author. Previous prototype development in the call area.

11.APPLICATION PERIOD AND APPLICATION OF DOCUMENTS

Application period: from December 20th to January 4th.

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 (GECAD_2018-03) 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 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

ISEP may opt to select the approved and non-selected candidates in the scope of the current call for contracting a researcher for the same project, through the withdrawal of the initially selected candidate.