

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

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| Job reference: | AE2021-0227 (Plurianual_LA - CPES) INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência |
| Job/position/grant: | RESEARCHER |
| City: | Porto |
| Research field: | Main: ENGINEERING Sub: Electrical engineering |

Job summary:

INESC TEC is accepting applications for 1 job in the Management and control of hybrid micro grids

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| Project: | Financiamento Laboratório Associado |
| Scientific Advisor: | Clara Sofia Gouveia |
| Start Date: | 2022-01-01 |
| Location: | INESC TEC, Porto, Portugal |

Job description:

Work Area: Management and control of hybrid micro grids

Project overview: - Develop and adapt existing microgrid dynamic modelling for the simulation of hybrid microgrid system - Development of hybrid microgrid system sizing methodology, enabling islanded operation - Development of predictive power and energy management strategy considering flexible loads

Objectives: - Identification of control and protection requirements in hybrid (AC/DC) microgrids - Dynamic modelling and simulation of hybrid microgrid system - Development of hybrid microgrid system sizing methodology, considering islanded operation - Development of power and energy management strategy considering flexible loads

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| Academic Qualifications: | Master in electrical and computer engineering; power systems and and other related areas |
| Minimum profile required: | - Experience in the formulation of optimization problems (operations research) for engineering areas - Modelling and simulation software (Matlab Simulink, etc.) - Programming experience (Python, etc.) |
| Preference factors: | - Experience in the control of DC or hybrid systems - Experience in projects for micro-grids - Fluency in English (spoken and written) |

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| Funding Entity: | funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., project (reference LA/P/0063/2020) |
| Type of contract: | Uncertain term contract |
| The hiring shall be governed by what is stipulated in the legislation in force regarding uncertain term employment contracts and by INESC TEC norms. | |

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| Selection criteria: | The selection of the candidates will be based on the following criteria, in descending order of consideration: a) Relevant Curriculum in the concerned field of this tender b) Proven experience. |
| Selection Jury: | President of the Jury: Prof. Clara Sofia Gouveia; Member: Prof. Ricardo Jorge Bessa; Member: Prof. José Villar; |
| Notification of results: | The results of the selection process will be sent to the interested by electronic mail. |
| Application period: | From 2021-11-10 to 2021-11-30 |
| Application submission: | Electronic form filling in www.inesctec.pt in the section Work with Us |