

## CALL FOR APPLICATIONS: RESEARCHER

### Job/position/grant:

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| <b>Job reference:</b>      | AE2024-0538 ( ATE - CPES )<br>INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência |
| <b>Job/position/grant:</b> | RESEARCHER   |
| <b>City:</b>               | Porto  |
| <b>Research field:</b>     | Main: ENGINEERING,COMPUTER SCIENCE<br>Sub: Electrical engineering  |

### Job summary:

**INESC TEC is accepting applications for 1 RESEARCHER job in the Advanced Smart Grid Applications**

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| <b>Project:</b>            | Alliance for Energy Transition |
| <b>Scientific Advisor:</b> | Jorge Correia Pereira          |
| <b>Start Date:</b>         | 2025-02-03                     |
| <b>Location:</b>           | INESC TEC, Porto, Portugal     |

### Job description:

**Work Area:** Advanced Smart Grid Applications

**Project overview:** Specification and development of monitoring and automation algorithms for transmission and distribution networks with integrating high shares of distributed energy resources Application integration and testing in HIL laboratory infrastructure

**Objectives:** Identify relevant state-of-the-art for state estimation algorithms and automatic control of transmission and distribution networks, considering the integration of data from synchrophasors (Phasor Measurement Units), SCADA measurements and other data sources.

Specify and develop a state estimation algorithm considering multiple data sources such as synchrophasors (Phasor Measurement Units), SCADA measurements and other data sources.

Validate the applications developed in a real-time digital simulator

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| <b>Academic Qualifications:</b>  | Master in electrical and computer engineering; power systems and other related areas   |
| <b>Minimum profile required:</b> | Experience on the modelling of transmission and distribution networks for steady-state simulation studies<br>Modelling and simulation software (Matlab Simulink, etc.) |
| <b>Preference factors:</b>       | Solid programming knowledge (pyhton, C)<br>Experience in the development of state estimation algorithms<br>Fluency in English (spoken and written)                     |

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| <b>Funding Entity:</b>   | ATE funded by IAPMEI with reference 56 Co-financed by Component 5 - Capitalization and Business Innovation, integrated in the Resilience Dimension of the Recovery and Resilience Plan within the scope of the Recovery and Resilience Mechanism (MRR) of the European Union (EU), framed in the Next Generation EU, for the period 2021 - 2026. |
| <b>Type of contract:</b> | Uncertain term contract<br>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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| <b>Selection criteria:</b>   | The selection of the candidates will be based on the following criteria, in descending order of consideration:<br>a) Relevant Curriculum in the concerned field of this tender<br>b) Proven experience.   |
| <b>Disability Incentive:</b> | Candidates who present a degree of disability equal to or greater than 90% will benefit from an incentive (20) in the score of the CV Assessment.<br>Candidates who present a degree of disability equal to or greater than 60% and less than 90% will also benefit from an incentive (10) in the score of the CV Assessment.<br>Said score may, in these cases, exceed 100 points.<br>Candidates must demonstrate the degree of disability during the application, namely through the submission of the Multi-Purpose Medical Certificate of Disability, issued in accordance with Decree-Law no. 202/96, of October 23 - currently in effect.<br>Candidates must declare, in the application form, the type of disability used throughout the selection process, in order to proceed with the required adaptations. |

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| <b>Selection Jury:</b>          | President of the Jury: Clara Sofia Gouveia;<br>Member: Jorge Correia Pereira;<br>Member: Ricardo Jorge Bessa;<br>Substitute member: Manuel Matos; |
| <b>Notification of results:</b> | The results of the selection process will be sent to the interested by electronic mail.   |
| <b>Application period:</b>      | From 2024-12-12 to 2025-01-12   |
| <b>Application submission:</b>  | Electronic form filling in <a href="http://www.inesctec.pt">www.inesctec.pt</a> in the section <a href="#">Work with Us</a>                       |