# INESCTEC

# CALL FOR APPLICATIONS: RESEARCHER

## Job/position/grant:

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| **Job reference:** | AE2022-0046 ( InterConnect - CPES ) |
| | INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência |
| **Job/position/grant:** | RESEARCHER |
| **City:** | Porto |
| **Research field:** | Main: ENGINEERING,COMPUTER SCIENCE,MATHEMATICS |
| | Sub: Electrical engineering |

## Job summary:

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| **INESC TEC is accepting applications for 1 job in the Smart Grids** | |
| **Project:** | Interoperable Solutions Connecting Smart Homes, Buildings and Grids |
| **Scientific Advisor:** | José Ricardo Andrade |
| **Duration of the contract:** | from 2022-03-10 to 2023-03-09, eventually renewable. |
| **Location:** | INESC TEC, Porto, Portugal |

## Job description:

**Work Area:** Smart Grids

**Project overview:** Application of machine learning techniques for modelling energy consumption time series; Implementation and validation of computational algorithms in real pilots; Integration of the developed software with a platform for flexibility management.

**Objectives:** The EU project InterConnect will develop solutions for a digitalisation of buildings and the electrical system based on architectures for the internet of things (IoT) that, through several digital platforms, and using a universal ontology called SAREF, guarantee interoperability between equipment and systems, while ensuring the privacy and cybersecurity of the data of different users. The goal of this position is the development of algorithms and software based on artificial intelligence for demand-side flexibility estimation and optimization.

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| **Academic Qualifications:** | Bachelor or Master degree in electrical and computer engineering, applied mathematics or computer science or informatics or similar. |
| **Minimum profile required:** | Knowledge about machine learning techniques. Advanced Python programming skills. |
| **Preference factors:** | Experience with forecasting techniques applied to energy systems; Fluency in English and Portuguese (spoken and written). Experience with the development of APIs. |

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| **Funding Entity:** | funded by CE, project (reference 857237) |
| **Type of contract:** | fixed-term contract |
| The hiring shall be governed by what is stipulated in the legislation in force regarding fixed-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. Ricardo Jorge Bessa; |
| | Member: Prof. Manuel Matos; |
| | Member: Prof. Jorge Correia Pereira; |
| **Notification of results:** | The results of the selection process will be sent to the interested by electronic mail. |
| **Application period:** | From 2022-02-02 to 2022-02-15 |
| **Application submission:** | Electronic form filling in www.inesctec.pt in the section Work with Us |