# INESCTEC

# CALL FOR APPLICATIONS: RESEARCHER

## Job/position/grant:

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| **Job reference:** | AE2022-0146 ( MAGPIE - 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 |
| | Sub: Electrical engineering |

## Job summary:

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| **INESC TEC is accepting applications for 1 job in the Digitalization and Energy Systems** | |
| **Project:** | sMArt Green Ports as Integrated Efficient multimodal hubs |
| **Scientific Advisor:** | Zenaida Mourão |
| **Duration of the contract:** | from 2022-06-23 to 2023-05-22, eventually renewable. |
| **Location:** | INESC TEC, Porto, Portugal |

## Job description:

**Work Area:** Digitalization and Energy Systems

**Project overview:** Definition of models and control strategies for the optimal management of energy resources in the port ecosystem, in order to support decarbonisation strategies, considering different energy vectors, logistics and environmental management. Development of SW modules and their integration into digital platforms in the concept of digital twin.

**Objectives:** The EU MAGPIE project will develop solutions to accelerate the introduction of green energy carriers (batteries, hydrogen, ammonia, BioLNG e methanol) combined with logistic optimisation in ports through automation and autonomous operations. The project will demonstrate technical, operational, and procedural energy supply and digital solutions in a living lab environment to stimulate green, smart, and integrated multimodal transport and ensure roll out through the European Green Port of the Future Master Plan. This vacancy will focus on the development of algorithms and mechanisms for managing and controlling port energy systems and their integration in digital platforms

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| **Academic Qualifications:** | Master degree in electrical and computer engineering, informatics engineering, mechanical engineering, computer science, informatics, or similar. |
| **Minimum profile required:** | Advanced knowledge in modelling techniques; Advanced knowledge about in SW integration in digital platforms. Advanced programming skills. |
| **Preference factors:** | Experience in the development of microservices and APIs; Fluency in English and Portuguese (spoken and written). |

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| **Funding Entity:** | funded by CE, project (reference 101036594) |
| **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. David Emanuel Rua; |
| | Member: Prof. Zenaida Mourão; |
| | 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 2022-05-04 to 2022-06-05 |
| **Application submission:** | Electronic form filling in www.inesctec.pt in the section Work with Us |