

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

| | |
|----------------------------|--|
| Job reference: | AE2022-0101 (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,Industrial engineering |

Job summary:

INESC TEC is accepting applications for 1 job in the Local Energy Communities

| | |
|----------------------------------|--|
| Project: | Financiamento Laboratório Associado |
| Scientific Advisor: | Ricardo Jorge Bessa |
| Duration of the contract: | from 2022-05-15 to 2023-05-14, eventually renewable. |
| Location: | INESC TEC, Porto, Portugal |

Job description:

Work Area: Local Energy Communities

Project overview: - Technical-economic evaluation of the implementation of local energy communities - Specification and development of new algorithms for sizing and operation of communities with renewable generation, storage and load flexibility - Application of artificial intelligence techniques for the optimization of energy communities - Testing and validation in real environment of software and hardware solutions

Objectives: - Defining functional requirements for multi-energy communities (electricity and heat/cold) - Development of centralized and distributed energy management algorithms - Optimal planning of distributed energy resources for communities - Testing and validation in laboratory and real demonstration environment

| | |
|----------------------------------|--|
| Academic Qualifications: | Master electrical and computer engineering; industrial engineering; mechanical engineering; operations research, other related areas |
| Minimum profile required: | Experience in the formulation of optimization problems (operations research) for engineering areas - Basic knowledge in energy concepts (electricity, heat/cold, etc.) - Programming experience (Python, etc.) |
| Preference factors: | - Experience in developing optimization problems for sustainable energy systems. - Experience in projects for multi-energy communities or micro-grids. - Fluency in English (spoken and written) |

| | |
|--|---|
| 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: | 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. | |

| | |
|---------------------------------|---|
| 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. José Villar; Member: Prof. Clara Sofia Gouveia; |
| Notification of results: | The results of the selection process will be sent to the interested by electronic mail. |
| Application period: | From 2022-03-16 to 2022-04-30 |
| Application submission: | Electronic form filling in www.inesctec.pt in the section Work with Us |