

CALL FOR APPLICATIONS: RESEARCHER

Job/position/grant:

Job reference:	AE2020-0230 (INESC TEC 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 Power Systems/Power Systems Dynamics and Stability **Resumo do anúncio:**

Project:	INESC TEC - UIDB/50014/2020
Scientific Advisor:	Carlos Moreira
Duration of the contract:	from 2021-01-04 to 2022-01-03 eventually renewable.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Power Systems/Power Systems Dynamics and Stability **Resumo do anúncio:**

Project overview: Dynamic modelling of conventional and low inertia converter-dominated power systems considering the impacts of control dynamics. Stability analysis of converter-dominated power systems. Grid-interactive modelling and control of inverter-based generation in both transmission and distribution power grids (mode switch of grid-following and grid-forming operations, synthetic inertia provision, fault ride-through, etc.) Prepare written documents addressing the purpose, methodology, data requirements, recommendations and main conclusions resulting from power system studies.

Objectives: Development of innovative solutions and system studies for assuring stability of electric power systems with increasing shares of converter interfaced generation systems.

Academic Qualifications:	(Integrated) Master in electrical and computer engineering.
Minimum profile required:	Consolidated knowledge regarding steady state and dynamic problems, models and simulation tools for electric power systems. Fluent in Portuguese and English (spoken and written)
Preference factors:	Proven experience in power system dynamic modelling and studies development. Proven experience on the use of simulation tools for dynamic modelling and analysis of power systems, such as MatLab/Simulink, PSS/E or DigSilent

Funding Entity:	Funded by National Funds through FCT - Portuguese Foundation for Science and Technology, I.P., in the scope of the project UIDB/50014/2020
Type of contract:	Certain Term
The hiring shall be governed by what is stipulated in the legislation in force regarding fixed individual employment contracts, as well as by the internal rules of INESC TEC, considering the regulations on the funding of R&D units for 2020-2023 .	

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. Carlos Moreira; Member: Prof. Bernardo Silva; Member: Prof. João Peças Lopes;
Notification of results:	The results of the selection process will be sent to the interested by electronic mail.
Application period:	From 2020-12-02 to 2020-12-16
Application submission:	Electronic form filling in www.inesctec.pt in the section Work with Us