

VACANCY

Power Systems Researcher (M/F)

The Company:

- R&D Nester comes from REN and State Grid Corporation of China's (SGCC) will to synergize core competences and create an R&D centre in order to promote and implement applied research, development, demonstration and testing in an international context, innovating for a smart energy system.
- We are a global and independent R&D centre, with a multicultural DNA and a long run strategic thinking, innovating for a smart, clean, efficient and sustainable energy system, aiming to be a prestigious R&D centre with a leading position in the intelligent management of energy systems.
- With a vibrant culture of creative and long run strategic thinking, focused on finding and developing unique opportunities to create value, we shall bring unconventional strategies that will shape the future of the energy market.
- We believe in Talent, Multiculturalism, Audacity, Agility and Flexibility.

Function details:

- Researcher – Power System Engineer (Full-time)

R&D Nester has built a Real Time Power System Simulator (RTPSS¹) LAB used to conduct, amid others, operational tests on various protections and control power system elements. RTPSS enables the closed-loop testing of equipment used in a real power system.

The successful candidate will benefit from a state of the art research environment and a dynamic research team.

Main Duties and Responsibilities:

The main objective of this position is to carry out power system simulation and testing researches and operations based on the power system digital simulation center of R&D Nester. The candidate is expected to be involved in the following:

- Development of models, plans and procedures for real time power system simulation and testing, including but not limited to hardware-in-the-loop and model-in-the-loop testing of protection and control systems;
- Operation of real time power system simulator, including maintenance of equipment, executing simulation and testing;
- Development of applied research to power system planning or operation using intelligent optimization methods addressing engineering problems such as RES integration, reactive power management, and congestion management
- Involvement in European R&D Projects in which R&D Nester participates in the abovementioned areas.

¹ a fully digital electromagnetic transient's power system simulator that operates in real time

Qualifications:

Candidates should have strong programming skills, knowledge of power/communications systems modelling and simulation. Relevant laboratory experience will be particularly welcome as well as to be open to work closely with international partners.

The successful candidate should have / be:

- Master / higher degree in electrical engineering (Power Systems), preferably with computer science knowledge and with minimum final grade of 14/20;
- Familiar with relevant offline simulation software, such as Matlab SPS/Simulink, EMTP/EMTDC (preferably) and PSS/E (preferably) and operating systems (preferably LINUX);
- Strong skills in programming (e.g. java, Python)
- Preferably, communications networks and laboratory operations experience;
- Preferably, good knowledge in power system simulation, including electromechanical and electromagnetic transients simulation;
- Preferably, experience in application of real time power system simulator and work experience in relevant fields;
- Fluent in English.

Personal profile:

- Team working
- Goals oriented
- Scientific maturity and autonomy
- Proactivity
- Flexibility and resilience
- Multi-tasking
- Written and oral proficiency
- Accountability.

Others:

- Job is located in Sacavém (Portugal).

How to apply:

This position is available for entry from April 2018 onwards. Potential applicants are invited to upload their CV and a covering letter highlighting their interests and suitability for the vacancy.