



Call for applications for the assignment of 1 research fellowship grant for carrying out Category B research activities, as per Article 22 of Italian Law No. 240/2010, for the Scientific Disciplinary Sector of ING-IND/33 – Electrical Power Systems, at the facilities of the CIR - Integrated Research Centre and of the Departmental Faculty of Engineering of Università Campus Bio-Medico di Roma

Call Code: ASS-RIC/01_24

Departmental Faculty	Engineering
Research theme in English	Stability of power systems in presence of converter-interfaced generators
Brief description of the research in English	<p>The research program, which is within the framework of the project “Stability of converter-dominated power systems (SCooPS)”, aims at analyzing the stability of the electric grid with multiple Converter-Interfaced Generators (CIGs). In particular, the analysis will focus on how the interactions among the different controllers of CIGs and with the other components of the power system may affect the overall stability.</p> <p>The researcher activity is divided into three phases. The first phase will be dedicated to the mathematical modelling of CIGs. The second phase will be devoted to the theoretical/simulative study of the stability of electrical systems with a significant presence of CIGs. In the last phase, control solutions will be designed to achieve stability in cases where the latter is not guaranteed.</p> <p>The activity will be carried in collaboration with Politecnico di Milano and University of Genova.</p>
Scientific Supervisor	Dott. Francesco Conte
Scientific Disciplinary Sector	ING-IND/33 – Electrical Power Systems
Language knowledge and skills	English B2
Date of the interview	1st March 2024, at 10:00 am Remote candidates on Microsoft Teams platform