2018-IPR-C-000-010018	Distributed modelling of power grids

| **Position for:**

Trainee | As the science and knowledge service of the Commission, the mission of Joint Research Centre is to support EU policies with independent evidence throughout the whole policy cycle.

The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: http://www.jrc.ec.europa.eu

Short description of activity:
Unit C.3 "Energy Systems, Distribution and Markets" aims at serving EC policy DGs in assessing the current situation of the European distribution grid and the actions taken for achieving a functional smart grid. The Unit does so by gathering and analysing data with respect to the European Distribution Operators and their network. In addition, data gathering and analysis is also performed for estimating the status of the smart grid research in Europe and beyond. For this purpose, information is collected with respect to the existing smart grid laboratories and projects realised.

The activity foreseen for this trainee, under the help and supervision of the Traineeship adviser, will be directed towards collecting and processing data regarding the Smart Grid Labs Inventory and the Distribution System Operator Observatory. The trainee will interact with scientists in foreign institutes facilitating this data collection. He/she will further on support the elaboration of the information collected, the deliver of a statistical analysis and contribute to the final JRC reports and scientific publications.

The trainee will collaborate to:
• Contact foreign organizations for smart grid data collection
• Process the gathered information and elaborate on the results – statistical analysis, creation of JRC policy reports |

	Qualifications: **Essential:** • The ideal candidate has at least a university degree in power engineering or similar and/or is pursuing a MSc in a field relevant to the topic of the call (preparing a thesis for a Master's degree or Ph.D or its equivalent at graduate level, the subject of the thesis must be directly related to the purpose of the training) • Programming skills (e.g. Python, R, MATLAB or equivalent) • Good oral and written knowledge of English (level B2). **Advantage:** • Familiarity with statistical analysis tools. • having a higher level of English language would be advantageous **For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:** https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees
Unit /Directorate	Directorate C: Energy, transport and climate. Unit for Energy security, distribution and markets. Further information: https://ec.europa.eu/jrc/en/research-topic/energy-system-and-security-supply
Indicative duration **Preferred starting date**	5 months As soon as possible
JRC Site **Country**	Ispra Italy
JRC contact details	**For any technical problems with your application, please contact:** HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu