



2018-PTT-C-000-010725

**SGHSI – Smart Grid and Smart Home
Interoperability**

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:

Among other activities, the unit conducts studies related to the interoperability aspects of smart grid systems. A new laboratory is being developed (Smart Grid Interoperability Laboratory) that works on the different layers of the smart grid architecture, from protocols and communications, to devices and subsystems. Among many others, it is equipped with real time simulators, energy storage systems and a large ICT infrastructure that will enable the emulation of complex communication scenarios.

The main activity of the trainee will be in providing support for the development of the infrastructure of the lab and the deployment of a Smart Home. This will involve support in both software and hardware configuration.

Some examples: hardware installation and inclusion in a management platform, creating automation rules, developing/upgrading the management platform, test bed development, database development, dashboard creation, ICT equipment deployment, smart home deployment etc. If a candidate has a background in Communication and PR issues, related activities could be included, such as posters, flyers, webdesign.

Qualifications:

The successful candidate should have completed his/her university studies (at least Bachelor level) in the area of engineering, physics, applied mathematics, informatics or

	<p>similar. A good oral and written knowledge of English is required (level B2). On site trainings and introduction will be provided on most topics related to the development of the laboratory.</p> <p><u>Essential:</u> However, the applicant should have some <u>basic</u> understanding on scripting, web-oriented programming languages (e.g. Python, YAML, JavaScript), web development (CSS, HTML), databases, networks, communication protocols (smart home and not only) and open to ICT in general.</p> <p><u>Advantage:</u> Good communication skills, team work, creativity, perseverance, and the ability to search through data, to analyse, and to summarise critical information is desired. A communication background is an advantage as well.</p> <p><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></p> <p>https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</p>
Unit /Directorate	<p>Unit C3 Energy Security, Distribution and Markets in JRC Directorate C - Energy, Transport and Climate</p> <p>Further information: http://ses.jrc.ec.europa.eu/</p>
Indicative duration	5 months
Preferred starting date	As soon as possible
JRC Site	Petten
Country	THE NETHERLANDS
<u>JRC contact details</u>	<p>For any technical problems with your application, please contact: HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</p>