



EUROPEAN COMMISSION
DIRECTORATE-GENERAL
JOINT RESEARCH CENTRE
Directorate B - Resources
Recruitment and Training

2016-IPR-F-000-7368

**Energy Efficiency consumption and trends
in ICT and data centres**

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| <p>Position for:</p> <p>Trainee</p> | <p><u>Short description of activity:</u></p> <p>As the science and knowledge service of the Commission, the mission of DG Joint Research Centre is to support EU policies with independent evidence throughout the whole policy cycle.</p> <p>With 7 Scientific Institutes, 3 Corporate Directorates and the DG/DDG Office, 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.</p> <p>Energy Efficiency is a key pillar of the Energy Union. There is the need to improve energy efficiency in every sector, including products. There is increasing energy consumption in end use equipment, in particular in Information and Communication Technologies (ICT). ICT equipment such as network and data storage equipment and data centre servers are increasing their consumption and usage due to cloud computing and internet. The proposed traineeship will assess the latest technologies developments in ICT and their impact on energy consumption and survey the market penetration of these technologies in Europe. Analysis of the specific technologies in terms of performances, energy consumption, test methods and quality will be performed. In particular the real data provided under the Code of Conduct for Data Centres will be analysed. The project will contribute with data and analysis to the JRC E3P.</p> <p>The selected Trainee in this research project will gather data on energy performances, energy consumption, and the total European consumption of ICT and data centres.</p> <p><u>Qualifications:</u> The position is open to both to undergraduate and graduate level.</p> |
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| | <p><u>Essential.</u> The minimum requirement is a university degree or to be near the completion of the degree in engineering, physics, computer science, economics or environmental science, with some experience in energy efficiency (please verify also general eligibility requirements).</p> <p>For undergraduates, please note that person should be studying at the university and preparing thesis.</p> <p>A good command on English language (level B2) is required.</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> |
| Institute/Directorate Unit | <p>Energy and Transport Institute Renewable Energy Unit</p> <p>Further information: http://ec.europa.eu/dgs/jrc/ https://recruitment.jrc.ec.europa.eu/</p> |
| Indicative duration | 5 months |
| Preferred starting date | as soon as possible |
| JRC Site | Ispra |
| Country | Italy |
| <u>JRC contact details</u> | <p>For any technical problems with your application, please contact: JRC-ESRA@ec.europa.eu</p> |