



EUROPEAN COMMISSION
DIRECTORATE-GENERAL
JOINT RESEARCH CENTRE
Directorate R - Resources
Human Resources

2016-IPR-C-000-7487

Probabilistic gas network modelling

Position for:

Trainee

Short description of activity:

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.

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>

The Energy Security, Systems and Market Unit of the Institute for energy and Transport, comprising of about 50 staff, supports the policy-making processes on electricity, gas and other energy related topics.

The trainee will support the development of the probabilistic gas network modelling tool ProGasNET.

S/He will be contributing to the coding of MatLAB modules for the processing of statistical results and the import of data into Geographical Information Systems.

During his stay the trainee will also focus on learning Monte-Carlo simulation technique and maximum flow algorithm in the graph theory.

Qualifications:

Essential:

The candidate should have a background in the field of Engineering/applied Mathematics or Computer Science.

Good level of written English is required (B2 level)

Advantage:

Computer programming languages, especially Matlab and knowledge of GIS would be regarded as additional assets.

	<p>Good knowledge of statistical methods and physics of gas transportation would be considered as an advantage.</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>Directorate C – "Energy, Transport and Climate" Unit C.3 – Energy security, Distribution and markets</p> <p>Further information: http://ses.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>