



EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

RESOURCES

Resource Management Petten

2014-PTT-F-000-3253

Modelling the interaction between the EU energy policy goals and the deployment of low carbon energy technologies

Position for:

Trainee TYPE II

Short description of activity:

The research project "Energy Systems Modelling" of the JRC focuses on studying, via systemic modelling, the current and future prospects of low carbon energy supply and demand technologies and their impacts on the EU Energy and Climate policy goals as well as the infrastructure evolution required for the transition to a low carbon economy.

The proposed trainee project will support the development and calibration of the model of European energy system available in-house at the JRC (based on TIMES). She/He will focus on a sub-sector of choice (e.g. energy supply, industry, or residential). The tasks that are proposed concern contributing to the following ongoing activities:

a) Analysis of the current and future European market for the chosen sub-sector. This includes the identification of key future technology options along with the collection and analysis of the associated technology and economic parameters.

b) Quantify for the chosen sub-sector the potential of technology improvements in Europe, which includes the definition of deployment scenarios up to 2050 and the assessment of these scenarios with respect to their impact on the EU policy goals (GHG reduction, Security of Supply and Energy Efficiency).

A report is expected from this work.

The trainee will be part of the Energy Systems Modelling project team and will work in a dynamic team and a friendly environment.

Qualifications:

The candidate should have a university degree, Master's degree, or PhD (as stipulated in the [Rules Governing the Traineeship Scheme of the JRC](#)). Knowledge in Excel and good analytical skills are required; while knowledge in numerical modelling of energy systems are valuable assets.

	Good command of English language (B2 level).
Institute Unit Action Project Responsible	Institute for Energy and Transport Energy Systems Evaluation Unit Energy Systems Technology Modelling Christian Thiel Further information: http://iet.jrc.ec.europa.eu/
Indicative duration	5 months
Preferred starting date	01/09/2014
JRC Site	Petten
Country	The Netherlands
Rules	Trainees: http://ec.europa.eu/dgs/jrc/downloads/jrc_trainee_rules_en.pdf