

Researcher Mobility Grant (RMG)

APPLICATIONS ARE INVITED – Researcher in analysing uncertainty in PV rating

RESEARCH: The RMG-Researcher is required to perform and interpret uncertainty calculations using first drafts for standardised energy rating calculations (developed within the parent JRP-ENG55). These formulas should enable the sensitivity estimation of input parameters. The RMG-Researcher will work on Sensitivity of Photovoltaic Energy Rating to Input Models and Measurement Uncertainty. This work complements WP1 of the related JRP-ENG55. The RMG-Researcher is required to contribute to at least 1 peer reviewed scientific paper (targeted journals will be Progress in Photovoltaics or Solar Energy) and at least one conference publication (e.g. EUPVSEC 2016). Results of this research will feed into documentation for developing international standards.

EXPERIENCE REQUIREMENTS: The RMG-Researcher must have relevant experience in PV yield modelling and uncertainty analysis.

PROJECT LOCATION(S): The research is envisaged to be undertaken at JRC (ESTI) in Ispra / Italy (must be located transnationally to the Researcher's employing organisation)

DURATION: 1 month. Earliest start date is January 2016; with completion before the JRP end date which is 30 April 2017

ALLOWANCES: The exact allowances can be found by using the "EMRP Researcher Grant Calculator" spreadsheet available at <http://www.emrponline.eu/downloads.html>

The EMRP Researcher Mobility Grant does not include a salary allowance. There is a fixed rate allowance of 1800 € /month living allowance (with an additional sum for those with a family who relocates with them), a further 500 € every 3 months as a travel allowance, and 200 € / month as a contribution to the Guestworking Organisation's overheads. In addition 1500 € may be claimed every 6 months for attendance at a specific named conference or meeting. Note that some of these allowances are corrected for each country.

CONTACT: Thomas Huld, thomas.huld@jrc.ec.europa.eu, +390332785273

RELATED JRP (each RMG is linked to a Joint Research Project of the EMRP)

PROJECT TITLE: ENG55 - PhotoClass: Towards an energy-based parameter for photovoltaic classification

PROJECT DESCRIPTION: Photovoltaics (PV), a method of generating electricity from solar radiation, has been rapidly growing as a viable energy source over the past decade. The PV world market volume is now worth approximately €50 billion per year. PV devices are currently sold according to their energy output and measured under standard test conditions. These standard test conditions represent climate conditions specific to the USA, which can lead to inaccurate estimates of energy generated when measured under real operating conditions. One per cent uncertainty in energy yield estimation corresponds to a €500 million financial uncertainty. This is particularly relevant in Europe where PV systems are operated in a wide range of climatic conditions. ENG55 is developing a new classification system of PV devices based on their energy production under different operational conditions. This will provide reliable data, enabling governments and industry to make informed decisions over which PV technologies are most suitable.

For more details see:

<http://photoclass.ptb.de>

http://www.euramet.org/research-innovation/search-research-projects/details/?eurametCtcp_project_show%5Bproject%5D=1209&eurametCtcp_project%5Bback%5D=473&cHash=04579c163aa024448fa4d8bdf350ab8

The RMG-Researcher may have the opportunity to work with and/or produce joint papers with the following world-leading Researchers: T. Huld, H. Mülleijans, R. Gottschalg, S. Winter

APPLICATION

ADVERT REFERENCE: ENG55-RMG4

CLOSING DATE: The closing date is 23:59 CET on Monday 7 Sep 2015

INTERVIEW DATES: If interviews are required they will take place between 28 Sep and 16 Oct 2015

APPLICATION: All applications must be submitted via www.emrponline.eu

An application consists of a Research Schedule (a description of the work to be undertaken), CV, covering letter, and excel datasheet.

ELIGIBILITY: Full eligibility criteria are given here: www.emrponline.eu/downloads.html

THE AIM OF EMRP RESEARCHER MOBILITY GRANTS

"To develop the capacity of individuals in Metrology"

The EMRP provides Researcher Mobility Grants (RMGs) to increase the capability of the European metrology researcher community, by supporting countries in building and furthering their capacity in Metrology.

* From: *Decision No 912/2009/EC*, Official Journal of the European Union, 30 September 2009, L257, p12 available from: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:257:0012:0025:EN:PDF>