

Researcher Mobility Grant (RMG)

APPLICATIONS ARE INVITED – Researcher in uncertainty contributions to ground-based atmospheric temperature data.

RESEARCH: ENV58 MeteoMet2 has a specific task addressing the investigation of siting uncertainties effect in temperature measurements, by means of experimental installation. These experiments are all equipped with anemometers and generate large quantities of data. Moreover, and for other tasks on sensors dynamics, ENV58 will also involve a special chamber, named EDDIE and available at INRiM, able to generate different wind speed at constant temperature.

An RMG-Researcher is required to perform a preliminary investigation on the effect of wind on temperature measurements, in terms of uncertainty component and/or correction. The objective will be based on the analysis of data coming (a) from the field installations active in ENV58 and (b) from experimental work using the EDDIE chamber. The activity (a) will require filtering the large amount of data recorded in the field experiments active for the tasks 3.2 and 3.5 (albedo), as a function of wind speed values, to obtain significant information on the influence in the effect of obstacles and albedo on temperature sensors. The activity (b) will be performed at INRiM using the EDDIE chamber, and evaluating possible changes in temperature reading, by keeping the temperature stable and changing the wind speed. Training of the researcher will be included and participation at main project events is requested for presenting the activity.

EXPERIENCE REQUIREMENTS: Experience in temperature metrology. Acquired practice in evaluating uncertainties in temperature measurements. Knowledge of temperature sensors.

PROJECT LOCATION(S): The research must be undertaken at INRiM (Italy) and must be located transnationally to the Researcher's employing organisation.

DURATION: Between 3 and 6 months duration. Earliest start date is January 2017; with completion before the JRP end date which is 30 September 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.

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

PROJECT TITLE: ENV58 Metrology for essential climate variables

PROJECT DESCRIPTION:

Essential climate variables include water vapour in the atmosphere, surface and deep sea temperature, ocean salinity, air temperature, precipitation and soil moisture. Long-term, high-quality observations of these variables are vital as society becomes increasingly affected by climate change. This project will investigate the performance of sensors used to monitor climate variables under different conditions and produce new measurement methods, techniques and standards. The results will improve the monitoring of essential climate variables. For more details see

http://www.euramet.org/research-innovation/search-research-projects/details/?eurametCtcp_project_show%5Bproject%5D=1228

<http://www.meteomet.org>

The RMG-Researcher is strongly encouraged to publish his/hers finding originating from this research with the possibility of cooperation on joint publications with world-leading researchers: Andrea Merlone (INRiM – MeteoMet Coordinator and EURAMET Task Group Environment Convenor), members of the MeteoMet Consortium.

APPLICATION

ADVERT REFERENCE: ENV58-RMG4

CLOSING DATE: The closing date is 23:59 CET on Monday, 5 September 2016

INTERVIEW DATES: If interviews are required they will take place between 3 and 7 October

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: <http://www.emrponline.eu/downloads/Guide1.pdf>

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>

[1] Global Climate Observing System: GCOS/GTOS Plan for terrestrial climate-related observations, V. 2.0. GCOS-32, WMO/TD-No.796,