

Researcher Mobility Grant (RMG)

APPLICATIONS ARE INVITED – Researcher in temperature measurement for climate studies in mountain environment

- RESEARCH:** An RMG-Researcher is required to integrate the task addressing metrology to measurement challenges in high mountains on permafrost and albedo measurements of the parent JRP, MeteoMet2 ENV58, by adding contributions to data analysis, measurement uncertainty evaluation and identification of possible influential quantities. The goal is to investigate further potential influential factors, with respect to those already included in the ENV58 protocol, connected with the most commonly used thermometers that could affect the temperature measurements of permafrost and air temperature under albedo effect. Such factors, mainly in terms of quantities of influence, will be evaluated as a result of data analysis on the running experiments and as improvement in laboratory and on site tests, for their inclusion into the measurement uncertainty budget. The work will contribute in improving knowledge in the evaluation of the uncertainty budget for permafrost temperature profiles measurements and air temperature records in high mountains.
- EXPERIENCE REQUIREMENTS:** Good knowledge of measurement uncertainty for temperature measurements. Experience in the use of standard thermometers.
- 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 November 2016; 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.
- CONTACT:** Dr Andrea Merlone, JRP Coordinator, a.merlone@inrim.it +39011 39 19 734

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), Guido Nigrelli, head of GeoClimalp project on Geomorphological impacts of Climate change in the Alps <http://geoclimalp.irpi.cnr.it/index.php/en/>.

APPLICATION

ADVERT REFERENCE: ENV58-RMG3

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 2016

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,