

**CALL FOR APPLICATION**  
**12-MONTH POSTDOCTORAL FELLOWSHIP AT CNRM-GAME**  
**(TOULOUSE, FRANCE)**

*Applications are invited for a 12-month postdoctoral position starting as soon as possible in 2014, in the climate department of the CNRM-GAME in Toulouse (France) to work on the following subject: "Multi-model analysis of intraseasonal variability and extremes in recent and future European temperatures". The deadline for application is **November 30<sup>th</sup> 2013**.*

Framework:

This position is funded by the European Institute of Innovation & Technology through the KIC E3P (Extreme climate Events and Energy Providers) project. The ultimate objective of this project is to provide a portfolio of diagnostics useful for coping with climate extremes in the context of global climate change. The targeted end users are from the energy sector and this position focuses on near surface temperature variability and heat waves over Europe.

Work description:

The proposed work will mainly consist in the following tasks :

- 1) Download and prepare daily model outputs from CMIP5 and possibly (i.e., if rapidly and easily accessible) Euro-CORDEX multi-model experiments for recent and late 21<sup>st</sup> century climate (this has been already partly achieved for CMIP5 experiments);
- 2) Compute relevant temperature diagnostics (diurnal temperature range, day-to-day temperature variability, grid-cell and regional heat wave indices, other diagnostics suggested by project partners from the energy sector);
- 3) Evaluate global and possibly regional climate models (historical simulations) against daily gridded observations (EOBS dataset);
- 4) Analyse the late 21<sup>st</sup> century model response and the related uncertainties arising at least from 3 sources: scenario, model and internal climate variability;
- 5) Implement a statistical calibration of daily temperature outputs for comparing raw versus calibrated projections;
- 6) Look for emerging constraints on heatwave projections using objective metrics of models' ability to capture recent climate (mean state, variability, trends);
- 7) Write scientific articles and give presentations in KIC E3P meetings and international conferences.

Required qualifications:

- 1) A Ph.D. in atmospheric sciences or an engineer diploma obtained before the date of the application.
- 2) An experience in the linux operating system, the netcdf file format, and the R statistical software.
- 3) A good practice in French or English languages.

Practical information:

The successful applicant will be contracted by Météo-France and will be based at the “Centre National de Recherches Météorologiques” (Toulouse, France; <http://www.cnrm.meteo.fr/>) within the climate research group. The opened position will start as soon as possible in 2014 for a 12-month duration. The net salary will be between **2600 to 3200 euros per month**, depending on the qualifications of the candidate.

*For full consideration, an application letter including a detailed statement of research interest, along with a curriculum vitae (including research experience, publications and conferences, computing skill and different language practises) and the names, telephone and email address of 2 referees should be sent by email before November 30<sup>th</sup> 2013 to:*

[herve.douville@meteo.fr](mailto:herve.douville@meteo.fr)

*with copy to:*

[julien.cattiaux@meteo.fr](mailto:julien.cattiaux@meteo.fr)

For more details about this call, please contact:

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For more details about CNRM-GAME climate research activities, please visit :

<http://www.cnrm.meteo.fr/gmgec/>