

## **Proposal for a post-doctoral research position in ATMOSPHERIC CHEMISTRY MODELLING**

**Laboratory: CNRM/GAME** (Centre National de Recherches Météorologiques/Groupe d'études de l'Atmosphère Météorologique), Météo-France, Toulouse, France ([www.cnrm.meteo.fr](http://www.cnrm.meteo.fr))

The present post-doctoral position is proposed in the frame of the IMPACT2C project (Impacts of a global temperature increase up to 2°C from the pre-industrial level, in Europe and most vulnerable regions of the world). IMPACT2C is funded by the European Community under the FP7 framework and started in October 2011. The central aim of IMPACT2C is to enhance knowledge on the consequences and associated costs for Europe, West Africa, Bangladesh and Maldives Islands, of a global increase of temperature of 2°C. The objectives of the CNRM/GAME in this project are to establish climate scenarios for Europe, to provide climatic simulations (global and regional) with CNRM-CM climate model and associated atmospheric chemistry simulations with MOCAGE Chemistry Transport Model (global and regional). These simulations will be used as input for impact studies.

The work proposed in this post-doctoral position concerns the atmospheric chemistry modelling task. The work will involve preparing and running several 20-year simulations (reference and simulations for different emission scenarios) over the globe and Europe using MOCAGE model. The meteorological forcing for MOCAGE will be from the CNRM-CM model outputs. The second step will be the analysis of these simulations including comparisons with results of similar simulations done with other Chemistry-Transport models within the project.

The position can start as soon as possible for a period of 18 months. The net salary proposed is in the range 2500 € to 3100 € per month, depending on candidate's experience. The work will be carried out at the Centre National de Recherches Météorologiques in Toulouse (France). The candidate must hold a PhD in atmospheric sciences and have some experience in numerical modelling and/or atmospheric chemistry. Computing skills in Fortran 90 and shell scripts will also be appreciated. Applications will be received by e-mail only **before February 12<sup>th</sup> 2012**. They must be sent to [virginie.marecal@meteo.fr](mailto:virginie.marecal@meteo.fr) and must contain a scientific CV, a letter of motivations, and possibly one or several letter(s) of recommendation. Any questions and requests should be sent to the same e-mail address.