

## Postdoctoral position offered for the « Design of an operational regional climate reanalyses system over Europe »

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### Context

This postdoctoral position is offered in the framework of the European program Copernicus Climate Change Service (C3S). The current project is dedicated to the preparation of a regional high-resolution climate reanalysis over Europe. CNRM is involved in the design of the operational system, has the responsibility of the preparation of input data for the system and is mandated to develop an Ensemble Data Assimilation (EDA) to assess the reanalysis uncertainty.

### Work description

It is proposed to participate to the design of the operational system that will be used to produce regional re-analyses over Europe. The system will run a 3D-VAR regional reanalysis at 5.5km with the ALADIN HARMONIE modelling system for the upper air and MESCAN for screen variables. The candidate will participate to the design of the system such as the definition of the vertical grid and physical options, and will test the new system on Meteo-France and ECMWF HPC-computers. Another task will consist in evaluating the performances of the new system against the UERRA re-analysis. In addition, he/she will work on the implementation of the surface analysis with MESCAN of 2m temperature and humidity. This work will be done in close collaboration with the Swedish Meteorological and Hydrological Institute (SMHI). He/she will contribute to analyse the results and will participate to the regular delivery of technical reports.

### Qualifications

The candidate must hold a PhD in atmospheric sciences, preferably numerical weather prediction. All the tasks require good skills in FORTRAN and Unix, as well as in scientific writing. A previous experience in numerical modelling in the use of complex codes on HPC-computers is preferred.

### Practical information

The position starts on **March 1st 2018** or the sooner after. The contract will be for **1 year renewable**. The net salary proposed is in the range 2600€ to 3100€ per month, depending on the candidate's experience. The work will be carried out in Météo-France in Toulouse (France), at the Centre National de Recherches Météorologiques ([www.umr-cnrm.fr](http://www.umr-cnrm.fr)), mainly under the supervision of Eric Bazile. Applications will be received by e-mail only **before November 13** to [eric.bazile@meteo.fr](mailto:eric.bazile@meteo.fr) and [patrick.lemoine@meteo.fr](mailto:patrick.lemoine@meteo.fr), and must contain a scientific CV, a letter of motivations, and at least two persons that may be contacted for recommendation. Any questions and requests should be sent to the same e-mail addresses.