
CALL FOR APPLICATION 24-MONTH POST-DOCTORAL POSITION

RESEARCH PROJECT CRESCENDO

*Coordinated Research in Earth Systems and Climate:
Experiments, kNowledge, Dissemination and Outreach*

<https://www.crescendoproject.eu>

Framework

The CRESCENDO H2020 European project brings together seven Earth System Modelling (ESM) groups as well as experts in ESM evaluation, ESM projection and feedback analysis. The main objectives are to improve the representation of key processes in European ESMs and to evaluate thoroughly the scientific performance of these models through a process-based evaluation. Climate projections from these improved ESMs will be a contribution to the CMIP6 effort.

Work Description

The focus of the present postdoctoral position is to contribute to the Work Package 3 entitled "Improving ESMs: Natural Aerosols and trace gases" by improving the aerosol module of the CNRM-ESM2-1 model. Indeed this module already represents the main aerosol types and their interactions with climate, but further developments concerning the representation of DMS and biogenic organic aerosols are needed. Work on fire emissions through the coupling with an interactive fire scheme in the surface module will also have to be carried out. In order to assess and document these new developments, the applicant will have to run appropriate model simulations, including CRESCENDO simulations defined in a multi-model framework. Thus he/she will contribute to the analysis of CRESCENDO simulations, as well as associated climate simulations in the CMIP6 and AerChemMIP programs.

Application Details

Profile	PhD in atmospheric sciences. A solid experience in numerical modelling is required, an experience in climate-aerosol studies would also be appreciated. A good practise of written and spoken English is required. All the tasks require gook skills in Fortran and Unix, as well as scientific writing.
Start date	1 st September 2018.
Duration	24 months (12 + 12 months)
Salary	Gross monthly salary between 3000 and 3900 euros, net monthly salary between 2600 and 3200 euros, depending on experience. The net salary includes French social services and health insurance.
Host laboratory	Météo-France/CNRM, 42 avenue Gaspard Coriolis, Toulouse, France (http://www.umr-cnrm.fr)
Supervisors	Dr. Martine Michou (CNRM/GMGEC, martine.michou@meteo.fr , +33561079331) Dr. Pierre Nabat (CNRM/GMGEC, pierre.nabat@meteo.fr , +33561079740)

Application

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, telephones and email addresses of 2 referees should be **sent by email before 1st June 2018** to: martine.michou@meteo.fr and pierre.nabat@meteo.fr