

Research engineer at CNRM (Météo-France/CNRS) for the production of seasonal forecasts for the Copernicus Climate Change Service

Applications are invited for a **24-month** position starting in **July 2019**, to work at the climate research group of the CNRM (Centre National de Recherches Météorologiques) on the following topic: "Production of seasonal forecasts for the Copernicus Climate Change Service"

The deadline for applications is **24 May 2019**.

Scope

The engineer position is funded by the European Union through the C3S (Copernicus Climate Change Service) Programme (<https://climate.copernicus.eu/>), coordinated by ECMWF (European Centre for Medium-Range Weather Forecasts). Seasonal forecasts are one component of C3S activities (<https://climate.copernicus.eu/seasonal-forecasts>), for which CNRM is responsible of the Météo-France contribution in the framework of the C3S_330 contract (from April 2018 to June 2021).

The main goal of the work planned is to contribute to C3S_330 workpackage WP3, aiming to upgrade the Météo-France operational seasonal forecast system (refer to <https://confluence.ecmwf.int/display/COPSRV/Description+of+System6-v20170501+C3S+contribution> for the presently operational systemS6).

Work description

In early 2020 the Météo-France super-computer will be upgraded. Between late 2019 and early 2020, both the current and the new machine will be accessible for the project. A first key task of the proposed work will be to contribute to the migration of the latest version of the seasonal forecast system (S7, to be implemented in real-time next July) on the new super-computer. The successful candidate will also contribute to others tasks of WP3, notably the development of tools or software to launch, monitor and evaluate the successive seasonal forecast systems.

Required skills

- 1) Engineer degree in scientific computing (masters or equivalent).
- 2) Demonstrated skill/proficiency in high performance computing and compilation, programming languages Python and/or Fortran, Unix command shell and post-processing and visualization software (e.g. R, NCL, CDO...).

3) English proficiency is required for reading and writing technical documentation and contributing to project deliverables, as well as participating in project meetings and workshops.

Experience in high performance scientific computing, numerical modelling, climate forecasting and/or climate services will be distinct advantages.

Practical information

The successful applicant will be contracted by Météo-France and will work at the CNRM, with possible collaboration with the DCSC (Météo-France climate services department). Both are based in the "Météopole" site in Toulouse, France. The opened position will start as soon as possible from July 2019, for a maximum duration of 24 months. Net salary (before income tax) is commensurate to qualifications and experience, and ranges from 2000 to 2700 euros per month.

For full consideration, an application letter including a detailed statement of the candidates' motivation for the position, alongside a full curriculum vitae (experience in scientific computing, programming skills and languages) as well as contact details for two referees (names, e-mail and phone) should be sent by e-mail (in French or English) by **24 May 2019** to: Jean-François Guérémy (jean-francois.gueremy@meteo.fr) and Lauriane Batté (lauriane.batte@meteo.fr).

Our email server limits the size of attachments to ~5 Mo so please take this into account when sending us your application or we may not receive it in due time.