CALL FOR APPLICATIONS
Post-doctoral fellowship on ocean-sea ice-atmosphere coupled seasonal predictions at CNRM (CNRS/Météo-France)

Start date : end October / beginning November 2018

Duration : 24 months (end of the project 31 October 2020)

Salary : 2000-2800€ (commensurate to qualifications and experience)

Location: CNRM, Toulouse, France

Applications are invited for a post-doctoral position starting end of October 2018 to work in the climate research group of the CNRM (Centre National de Recherches Météorologiques) on seasonal predictions with a coupled ocean-sea ice-atmosphere GCM.

Deadline for applications is **12 July 2018**.

Scope

The post-doctoral fellowship is funded by the European Union through the **H2020-APPLICATE** ("Advanced Prediction in Polar regions and beyond: modelling, observing system design and LInkages associated with a Changing Arctic climaTE") project, coordinated by Alfred Wegener Institute (AWI, Germany).

The main goal of this fellowship is to contribute to project work package WP5 on "improved forecast capacity", focusing on the seasonal range by developing and evaluating an enhanced version of the CNRM-CM Global Coupled Model (GCM) used in a seasonal forecasting framework.

Work description

The successful applicant will work on integrating improvements to the representation of sea ice surface and air-sea ice interactions in the CNRM-CM6 GCM and evaluating these developments on a past re-forecast period, using APPLICATE stream 1 seasonal re-forecast experiments as a benchmark.

She/he will also investigate the use of stochastic perturbations in the NEMO ocean model for ensemble generation both in terms of impact on spread and forecast quality.

Alongside these model developments, the post-doctoral fellow will assess the impact of increased resolution on the representation of Arctic / mid latitudes linkages and skill over the Northern Hemisphere.

Finally, the successful applicant will actively participate to WP5 discussions and dissemination of results, including a thorough assessment of the added value of these model developments and expert recommendations on future developments in operational seasonal forecasting systems over the regions of interest.

Required qualifications

1. A PhD in climate sciences, meteorology or related fields.
2. Experience with coupled ocean-atmosphere climate models.
3. Demonstrated skill/proficiency in scientific analysis and visualization software (e.g. R, NCL, CDO…).
4. Proven ability to effectively communicate scientific results in project meetings, international conferences and peer-reviewed publications.

Practical information

For full consideration, applicants should provide a detailed statement of interest for the position, a complete CV (including publications, programming skills and languages) as well as contact details for two referees (names, e-mail and phone) by 12 July 2018 to :
Dr. Lauriane Batté (lauriane.batte@meteo.fr)
and
Dr. Matthieu Chevallier (matthieu.chevallier@meteo.fr)

Our email server limits the size of attachments to ~5 Mo so please take this into account when sending us your application.