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## Job Opportunities at IC3

Barcelona, 10 April 2014

# Post Doctoral position. Climate Forecaster at the Climate Forecasting Unit (CFU).

## LOCATION

IC3 Headquarters in Barcelona, Catalonia, Spain

## GENERAL DESCRIPTION AND WORK ENVIRONMENT

The Institut Català de Ciències del Clima (IC3) is a climate research institute created in 2008 by the Government of Catalonia and the University of Barcelona, aiming at understanding climate variability and change at both global and regional scales, improving both climate predictions and projections, as well as the dynamics and theory underlying those changes and the impact on society. Linked to these goals, IC3 works on understanding and simulating how global change modulates variability and changes in society and ecosystems to provide better climate services.

IC3's mandate is to become a leading international centre for climate research in Europe, with a regional focus on the Mediterranean area. IC3 aims to perform quality research on basic and applied climate sciences, while informing society and stakeholders on future climate risks.

Working languages are English, Catalan and Spanish.

In tune with IC3's objectives, a growing interest in the implications of climate variability and change from a season to a few decades ahead is taking place. Reliable climate information is critical to ensure that adaptation measures to climate variability and change are efficient. The Climate Forecasting Unit (CFU), led by the ICREA research professor F.J. Doblas-Reyes, undertakes research on the development and assessment of dynamical and statistical methods for the prediction of global and regional climate on time scales ranging from one month to one decade.

More information about the CFU activities is available from the following links: [www.ic3.cat](http://www.ic3.cat) and [http://ic3.cat/wikicfu/index.php/Main\\_Page](http://ic3.cat/wikicfu/index.php/Main_Page)

## MAIN DUTIES

The successful applicant will work on performing and analyzing seasonal-to-decadal ensemble climate predictions with the dynamical global climate model used by the CFU, EC-Earth. The scientist is expected to contribute to different tasks planned in the framework of the SPECS project, such as evaluating the impact of

aerosols in climate predictions, investigating the sources of skill and the sources of forecast errors with a particular emphasis on the North Pacific and/or North Atlantic-European regions, and contributing to the development of the common tools used for analysis by the CFU members.

The applicant will be involved in collaborative work with other partners within the EC-Earth consortium. Outstanding opportunities exist for establishing links with other international climate research institutions and, if interested, participating in the tutoring and monitoring of early-career scientists.

## DESIRED SKILLS / QUALIFICATIONS

Applicants must have a PhD in climate sciences, applied mathematics or in a related discipline. Ideal candidates will have several of the following attributes:

- A demonstrated ability to develop experimental set ups that address specific climate modelling problems and to manipulate climate model codes.
- Extended knowledge R, cdo, ncoo and bash, while experience with python and dortran will be highly valued.
- Experience in handling large databases, and a minimum knowledge of NetCDF encoding.
- Proven ability to prepare and submit manuscripts to high-impact, peer-review journals.
- Interest and capacity in participating in the writing in and, when possible, leading the preparation of research and computing proposals.
- Fluency in spoken and written English, while fluency in other European languages will be also valued.

This position implies becoming part of dynamic, multi-national research group that performs cutting-edge, highly-demanding climate prediction experiments. The candidate should be able to work as an active and collaborative team member to help in the delivery of shared objectives and to efficiently communicate within and outside the research group. Hence, the ability to work as part of a large, strongly-coordinated team and to continuously share both knowledge and tools is an essential requirement.

## CONDITIONS AND APPLICATION PROCEDURES

The position is opened for 24 months with a possibility for extension depending on performance and the availability of additional funding. The position will start preferably in June 2014 or as soon as possible after that date. The salary will be commensurate with experience.

To apply, please send an email to [jobs@ic3.cat](mailto:jobs@ic3.cat) with your CV and the following subject "Climate Forecaster at the CFU".