

## **PhD fellowship on climate prediction, air quality modelling, environmental service development or computational aspects of the environmental modelling and data analysis at the Earth Sciences Department of the Barcelona Supercomputing Center (BSC)**

The Earth Sciences Department of the Barcelona Supercomputing Center is looking for motivated candidates to fill a PhD position to work on one of the following topics:

- climate modelling and prediction
- air quality modelling and forecasting
- environmental service development
- computational aspects of the environmental modelling and data analysis

The research themes proposed to the student will build upon the research already carried out in the department and be linked to the large number of research projects currently developed. The student will be a member of one of the four research groups of the department, be enrolled in one of the universities with whom the BSC has agreements and be supported by the extraordinary technical and scientific staff of the department.

The student, who will be offered a four-year PhD contract, will be supervised by one of the department senior scientists, depending on the topic chosen, and be codirected by an external scientist of international reputation. The position will be based at BSC, but the student will be offered the opportunity to visit external laboratories to develop part of her/his research for short periods of time.

During the PhD, the student will have the opportunity to share the results of her/his research in different national and international scientific forums and will be encouraged to prepare scientific research articles, as well as to contribute to outreach activities. BSC offers multiple training activities in complementary skills required for efficient research execution and communication through its [Education and Training Unit](#).

For more information on the project, please contact [francisco.doblas-reyes@bsc.es](mailto:francisco.doblas-reyes@bsc.es).

### **Important**

The **deadline** for applications is the **29<sup>th</sup> of October 2018** (see below for details). However, candidates are highly encouraged to contact [predoctoral@bsc.es](mailto:predoctoral@bsc.es) **before the 18<sup>th</sup> of October 2018** with their academic record to check the eligibility criteria and receive help throughout the application process.

**The BSC will provide assistance to non-Spanish speakers if required during the application process.**

### **About BSC-ES**

The [Earth Sciences department at BSC \(BSC-ES\)](#) conducts multi-facet research in Earth system modelling. Under the direction of [Prof Francisco J. Doblas-Reyes](#) BSC-ES has become in a short time a main European actor in the development of climate predictions and climate services. The department is structured around four groups with more than 70 employees, including technical and support staff. It is a highly productive scientific entity that has published more than 150 research articles in peer reviewed journals over the last 5 years, including 5 in prestigious high-impact journals and with a very dense international collaborative network counting at least 50 institutes worldwide. BSC has been awarded with the Severo Ochoa's Centre of Excellence project of the Spanish government since its first call (2011). BSC-ES international activity includes the coordination of the two World Meteorological Organisation (WMO) regional centres specialised in sand and dust warning and forecasting, as well as

the participation in climate services initiatives like the Climate Services Partnership (CSP). Members of BSC-ES participate in committees of the World Climate Research Programme (WCRP), such as the CLIVAR Scientific Steering Group or the Working Group on Subseasonal to Interdecadal Prediction (WGSIP).

### **How to apply**

The new pre-doctoral four-year fellowships call from the Spanish Ministerio de Ciencia, Innovación y Universidades ([FPI 2018](#)) will be open **from the 9<sup>th</sup> to the 29<sup>th</sup> of October 2018**. Only one application may be submitted by each candidate (use the reference SEV-2015-0493-18-1). The application will be submitted through the Ministry's [Participant Portal](#) and must include:

- Passport (for non-Spanish and those non-resident in Spain)
- CV (Spanish or English)
- BSc title (240 ECTS)
- MSc title (minimum 60 ECTS)

We encourage potential candidates to please contact [predoctoral@bsc.es](mailto:predoctoral@bsc.es) with your academic record in order to check your eligibility. The deadline for internal preliminary eligibility check will be the **18<sup>th</sup> of October**. **After this date, assistance for the application cannot be guaranteed.**