

The Max Planck Institute for Meteorology (MPI-M) is a multidisciplinary center for climate research located in Hamburg, Germany. It has an internationally recognized reputation in climate modeling. The MPI-M is located in the heart of one of Europe's most livable and vibrant cities. It provides a highly international and interdisciplinary environment for conducting scientific research as well as access to state-of-the-art scientific facilities.

Within the Horizon 2020 funded project CRESCENDO (Coordinated Research in Earth Systems and Climate: Experiments, Knowledge, Dissemination and Outreach), the research group *Ocean Biogeochemistry* in the department *The Ocean in the Earth System*, we are looking for a

## Postdoctoral Scientist (m/f, Ref. MPIM-W008)

to work on improving the representation of key ocean biogeochemical processes involved in Earth system feedbacks in an Earth System Model.

The project CRESCENDO has received funding from the European Union's Horizon 2020 research and innovation program grant agreement No 641816.

### Responsibilities

The objective of this position is to investigate the role of the improved ocean dynamics and previously unresolved small scale physical processes in projections of marine biogeochemistry, including representation of carbon and nutrient cycles, oxygen minimum zones, and ocean carbon storage in simulations of the historical and future climate evolution. The researcher recruited for this position will:

- develop and carry out simulations using the ocean biogeochemistry model HAMOCC in the framework of the MPI-ESM
- contribute, together with other EU partners, to a set of simulations, advanced analysis, and evaluation of a range of CMIP6 simulations that align with the main project goals
- contribute to project and sub-task coordination
- disseminate the results through publications in peer-reviewed journals and presentations at conferences

The successful candidate will be part of an international, interdisciplinary team based at universities and research institutes throughout Europe, and is expected to attend coordination, and dissemination activities that are organized by CRESCENDO.

### Qualifications / experience

- A PhD in oceanography, geoscience, or a related field is required for this position.
- Compelling understanding of ocean biogeochemical dynamics, in particular regarding its role in Earth's climate.
- Experience with ocean carbon cycle models (ideally also with Earth System Models), skill in model evaluation is of advantage.
- Programming skills in Fortran, post-processing and visualization software (e.g., NCL, CDO, MATLAB), as well as experience in handling large data sets.
- Ability to contribute to and coordinate cross-institutional research work.

### **Selection criteria**

The selection criteria will value the mobility, the qualifications, and the experience of the candidates with respect to the text above.

### **Employment conditions**

- The position is offered for 3 years, starting in November 2015, with a possible extension of two years.
- Payment will be in accordance with German public service positions (TVoED E14), including extensive social security plans. The conditions of employment, including upgrades and duration, follow the rules of the Max Planck Society for the Advancement of Sciences and those of the German civil service.
- Our institute takes all measures to implement the principles set out in the Commission Recommendation on the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers regarding working conditions, transparent recruitment process based on merit and career development (in compliance with the Art.32 of the grant agreement with the European Commission).

### **Selection process**

A selection panel will be established. The selection will follow the rules of the Code of Conduct for Researcher Recruitment (<http://ec.europa.eu/euraxess/index.cfm/rights/codeOfConduct>)

The Max Planck Institute for Meteorology seeks to increase the number of female scientist and encourages them to apply. Handicapped persons with comparable qualifications receive preferential status.

### **How to submit your application for this post**

Please submit:

- 1) A cover letter
- 2) A detailed curriculum vitae
- 3) The names, addresses, and telephone numbers of at least two referees

By uploading the documents in our online application system:

[https://s-lotus.gwdg.de/mpg/mhmt/perso/mpim\\_w008.nsf/application](https://s-lotus.gwdg.de/mpg/mhmt/perso/mpim_w008.nsf/application)

### **Deadline for applying**

This vacancy has been opened **21 July 2015**. A first cut-off date for the collection of the applications is foreseen on **5 September 2015**. If the position is not filled, this vacancy announcement will be re-published indicating a second cut-off date.

### **Further information on this position**

For further information, please contact Dr. Tatiana Ilyina at [tatiana.ilyina\(at\)mpimet.mpg.de](mailto:tatiana.ilyina(at)mpimet.mpg.de).

Do not forward your application to this email address, the applications need to be submitted through the online application system (see link above).

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