The Max Planck Institute for Meteorology, a multidisciplinary centre for climate and Earth system research located in Hamburg, Germany, invites applications for

**1 PhD in the field of ocean biogeochemistry (W060).**

The applicant will be part of the Research Group *Ocean Biogeochemistry* in the Department *The Ocean in the Earth System* and will work within the DFG Project TERSANE. The research will focus on **reconstructing the ocean carbon and nutrient cycles and their interactions with climate during the Permian-Triassic transition.** The task will involve designing and conducting numerical experiments with the existing Earth system model of the MPI-M, which includes the ocean biogeochemistry model HAMOCC. One main objective of this project is to get a better understanding of the relationship between the observed dramatic climate changes (pCO$_2$ and temperature rise) and nutrient cycling, changes in the carbon cycle and its consequences for marine life during P-T transition.

**Qualifications / Experience**

- The applicant is expected to hold a M.Sc. or diploma in Geosciences, Oceanography, Environmental Sciences, Physics or a related field.
- Experience, or a strong interest in ocean biogeochemistry and modeling is of advantage.
- Good skills in programming and computer science will be regarded very favorably, since the applicant will work with large-scale computing systems (unix or GNU/linux OS, parallel computing).
- Basic knowledge of numerical analysis and statistical methods are desirable.

**Employment conditions**

- The position is offered for three years.
- This Ph.D. position is part of the International Max Planck Research School on Earth System Modelling (IMPRS-ESM).
- Payment will be in accordance with German public service positions up to TVoeD E13/65%, including extensive social security plans. The conditions of employment follow the rules of the Max Planck Society for the Advancement of Sciences and those of the German civil service.
- The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds.
- Handicapped persons with comparable qualifications receive preferential status.

**How to submit your application**

Please submit

1) a cover letter,
2) a detailed curriculum vitae, and
3) copies of certificates.

by uploading the documents in our online application system:

**https://s-lotus.gwdg.de/mpg/mhmt/perso/mpim_W060.nsf/application**

To complete your application, two reference letters are required. Applicants are asked to forward to their referees the IMPRS-ESM template reference sheet and information letter. These can be downloaded from:

**http://www.mpimet.mpg.de/reference-letters/**

**Deadline**

Please submit your application until **15 May 2019.**

**Further information on this position**

For further information, please contact Dr. Tatiana Ilyina (tatiana.ilyina(at)mpimet.mpg.de).
Please note that applications will be considered only when submitted via the online application system (see link above).