The Max Planck Institute for Meteorology (MPI-M) is a multidisciplinary centre for climate research located in Hamburg, Germany. It has an internationally recognised reputation in climate modelling. The MPI-M is located in the heart of one of Europe's most liveable 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 DFG project GWING (Gravity Wave Interactions in the Global Atmosphere) part of the MS-GWaves (Multi-Scale Dynamics of Gravity Waves) Research Unit, we are looking for a

**Postdoctoral Scientists (f/m / W053)**

with a strong background in atmospheric modelling and analysis, numerical mathematics, or computational science. Within the department "The Atmosphere in the Earth System", the successful applicant will work with the atmospheric general circulation model ICON. His/her tasks will be the further development and analysis of a gravity wave (GW) permitting version of ICON covering the atmosphere from the surface to the lower thermosphere. The analysis will focus on the role of GWs for sudden stratospheric warmings and for circulation changes under climate change. The task will be performed in close collaboration with partners from the German weather service (DWD) and several other German research institutions. More information on the project is provided at:

https://ms-gwaves.iau.uni-frankfurt.de/index.php/de/projekte/gwing.

**Responsibilities:**

The successful candidate will have considerable latitude in defining their own research questions, but an ability to articulate new ideas and leverage new opportunities (global cloud resolving models, advances in measurement science, large ensembles, long, or creatively configured runs with traditional climate models) is paramount.

**Qualifications/Experience:**

- A PhD in applied mathematics, meteorology, oceanography, physics, or computational science is required for this position.
- Previous experience in the modelling of atmospheric dynamics is of advantage.
- The applicant should additionally have expertise in scientific computing, including programming skills (Fortran and shell scripting on Unix-type platforms).

**Employment conditions:**

- The position is offered for up to 2 years starting preferentially in May 2019.
- 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.
- 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.
Selection criteria
Candidates will be evaluated based on their qualifications and ability to fulfill the responsibilities as outlined for this project.

How to submit your application for this post
Please submit:

1. A cover letter including a short statement presenting your research outlook
2. A detailed curriculum vitae incl. a list of publications
3. The names, addresses, and telephone numbers of two referees

by uploading the documents in our online application system:

https://s-lotus.gwdg.de/mpg/mhmt/perso/mpim_W053.nsf/application

Deadline for applying
Applications received prior to 15 February 2019 will receive full consideration, but the positions will remain open until filled. The starting date is negotiable, but can be immediately.

For further information, please contact Dr Hauke Schmidt (hauke.schmidt(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).