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 lively 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.

Subject to the official Grant Approval by the Federal Ministry of Education and Research, the MPI-M is now opening **two** positions for

Scientific Programmer (f/m/d; W096)

to contribute to the development of a new generation of Storm-Resoving (km-scale) Earth System Models (SR-ESM). The successful applicant will contribute to build the technically most ambitious simulation system imaginable to be used on the largest compute systems available in the world.

Over the coming years, the ICON climate simulation system will be restructured and rewritten using modern software development concepts, to allow for scalable and agile development of the scientific code to prepare it for applications on heterogeneous exa-scale HPC systems. These two positions will lay the foundation for the work on the new modular and performance portable code to be developed from the existing code base with a growing team into a full climate simulation model. The successful applicants will work in a vibrant scientific environment, embedded in large technical and scientific projects at the forefront of climate science across institutions in Germany (especially in cooperation with DKRZ) and Europe.

As a member of the MPI-M the applicants will be afforded a wealth of opportunities including participation in various soft skill and personal development trainings.

Qualifications / Experience

- Experience or a strong interest in High Performance Computing.

- Strong programming and modern software engineering skills.

- Good communication and teamwork skills, ability to work autonomously and self-responsible.

- English is our working language, so proficiency is a pro.

- A PhD in Informatics, Mathematics, Physics, Geosciences or a related field would be advantageous.

Employment conditions

- The positions are available **from October 2021** for **initially 24 months and can be extended up to 60 months** depending on progress and funding.

- Payment will be in accordance with German public service positions (TVöD E13/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 Society strives for gender and diversity equality. We welcome applications from all backgrounds.

- Handicapped persons with comparable qualifications receive preferential status.

Selection criteria

Candidates will be evaluated based on their qualifications and ability to fulfil the responsibilities as outlined for this project.

Deadline for applying

Please submit your application until **1 August 2021**. The position will be open until filled.

We are looking forward to receiving your application including the following documents:

- A cover letter

- A detailed curriculum vitae

- The names, addresses, and telephone numbers of two referees

For further information, please contact **Daniel Klocke (daniel.klocke (at)mpimet.mpg.de**). Do not forward your application to this email address; the application needs to be submitted through the online application system (see link below).

Please submit the application to our online application system:

https://s-lotus.gwdg.de/mpg/mhmt/perso/mpim_w096.nsf/application