

The Max Planck Institute for Meteorology (MPI-M), a multidisciplinary center for climate and Earth system research located in Hamburg, Germany, invites applications for the position of a

Scientific Programmer (m/f) - SAS2010-04 -

to aid in the development, support, and optimization of its Earth system model. The applicant is expected to have a masters degree (or equivalent) in the physical sciences (including chemistry, engineering and mathematics), a thorough knowledge of Fortran 2003 and C/C++, OpenMP and MPI, UNIX, and at least one high-level scripting language, as well as experience working with high-performance computing (HPC) systems. Detailed knowledge of performance and scalability analysis tools is required. Familiarity with advanced workflow concepts, particularly in data rich environments, is especially desired. We are particularly interested in applicants interested in the following short- to medium-term tasks:

1. Optimization of codes for massively parallel computers, with emphasis on the thread level with respect to multi-core CPU architecture, to prepare our models for the new generation of HPC systems.
2. Performance investigations and optimization of hybrid parallel codes.
3. Research on the applicability of PGAS languages for our types of codes.

An applicant's ability to make effective contributions in some subsets of these areas must be demonstrated by an appropriate track record.

The position is initially offered for two years, with the possibility of becoming permanent thereafter. Exceptionally qualified candidates may be offered permanent employment at the outset. The payment depends on qualification and experience according to a civil service position (TVöE E13). The position includes 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.

For further information, please contact the managing director of MPI-M, Professor Jochem Marotzke, via E-mail (jochem.marotzke@zmaw.de); applications should be directed to the address listed below.

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

All applications (including a cover letter, a curriculum vitae, copies of scientific degrees, and the names and contact information of two references) received

before 28th of February will receive full consideration. The positions will remain open until filled.

Applications should be sent via E-Mail to <application-mpim@zmaw.de> (max. 2 MB pdf-attachments) or by post to:

Max Planck Institute for Meteorology
Administration (SAS2010-04)
Bundesstrasse 53
D-20146 Hamburg, Germany