As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

Pending approval of external funding the Faculty of Mathematics, Informatics and Natural Sciences, Department of Earth System Sciences, Meteorological Institute invites applications for a

RESEARCH ASSOCIATE FOR THE PROJECT “TRR 181 ENERGY TRANSFERS IN ATMOSPHERE AND OCEAN” SUBPROJECT S1: DIAGNOSIS AND METRICS IN CLIMATE MODELS - SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on 01.04.2021 at the earliest.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of three years. The position calls for 39 hours per week. This position is also suitable for part time employment.

RESPONSIBILITIES:

Duties include academic services in the project named above, which is funded by the German Research Foundation. TRR 181 investigates details of energy transfers between waves, eddies and local turbulences in the ocean and the atmosphere and numerical models representing them. It is a large interdisciplinary project involving oceanographers, meteorologists and mathematicians of Northern Germany working closely together to develop energetically consistent mathematical models to improve climate prediction. This postdoctoral position in subproject S1 focuses on the validation of simulated variability and tracing of biases in climate models through physically derived equations. Research associates may also pursue independent research and further academic qualifications.
SPECIFIC DUTIES:
The candidate will develop novel methods for the validation of spatio-temporal variability in climate models and bias diagnosis in relation to dynamics. The work will include numerical simulations with models of different complexity and bias analysis in the climate models developed by the partners within the collaborative research center. Duties include collaboration with partners in Subproject S1 and other areas of TRR181, writing and publishing articles in peer-reviewed journals and presenting research results at conferences and workshops.

REQUIREMENTS:
A university degree in a relevant subject plus doctorate. Degree and doctorate are required in physical sciences, engineering or applied mathematics with a PhD topic preferably in atmosphere or ocean sciences.

We are looking for candidates with a keen interest in geophysical fluid dynamics and numerical modelling, with advanced scientific programming skills, scientific writing skills and a capacity for teamwork.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact Prof. Nedjeljka Žagar (nedjeljka.zagar@uni-hamburg.de) or consult our website at https://www.trr-energytransfers.de.

Applications should include a cover letter, a curriculum vitae containing a list of publications, copies of degree certificate(s) and names of three potential referees, as a single PDF file. The application deadline is 15 January 2021. At least two reference letters have to be received separately before the application deadline.

Applications and reference letters should be sent to Prof. Dr. Nedjeljka Žagar (nedjeljka.zagar@uni-hamburg.de) and include “TRR 181, S1” in the subject line. Please CC jobs.trr181.cen@uni-hamburg.de when sending in your application (not necessary for reference letters).

Please do not submit original documents as we are not able to return them. Any documents submitted will be destroyed after the application process has concluded.