



Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

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, Institute of Oceanography invites applications for a

RESEARCH ASSOCIATE FOR THE PROJECT “TRR 181 ENERGY TRANSFERS IN ATMOSPHERE AND OCEAN”, SUBPROJECT W4: GRAVITY WAVE PARAMETERIZATION FOR THE OCEAN

- 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 as soon as possible.

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 until 30.06.2024. The position calls for 75 % of standard work hours per week**.

RESPONSIBILITIES:

Duties include academic services in the project named above, a DFG funded collaborative research center that involves several German universities and research institutes and aims at better understanding and consistently representing energy transfers between different dynamical regimes in mathematical and numerical models (see website for more details <https://www.trr-energytransfers.de>). Research associates may also pursue independent research and further academic qualifications. Project results may be used in the context of a doctoral dissertation.

SPECIFIC DUTIES:

The subproject W4 investigates energetically consistent parameterizations of wave-induced turbulent mixing in ocean general circulation models, in particular, the IDEMIX (Internal Wave Dissipation, Energy and MIXing) concept. Tasks specific to this position include a) the extension of the IDEMIX model by further spectral parameters, and b) the comparison and evaluation of the IDEMIX versions of increasing complexity with respect to the characteristics of the modeled

* Full-time positions currently comprise 39 hours per week.

wave field, the associated computational costs, and the agreement with global-scale observations. The successful candidate will be part of the theoretical oceanography group at Universität Hamburg, working under the supervision of Dr. Friederike Pollmann (Universität Hamburg), Prof. Dr. Dirk Olbers (University of Bremen), and Dr. Janna Köhler (University of Bremen). The successful candidate will also be a member of the project's research training group ENERGY (funding by DFG pending), which connects the participating universities and research institutes and provides dedicated training courses, ample opportunity for (international) networking, and a mentoring program to support career development.

REQUIREMENTS:

- Completed MSc or equivalent in physical oceanography, meteorology, physics, applied mathematics or related relevant fields.
- Genuine interest in independent research in the fields of oceanography and numerical modelling, in data analysis, and in the presentation and publication of scientific results.
- Applicants should have very good English skills and enjoy working in an international and interdisciplinary team.

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

For further information, please contact Dr. Friederike Pollmann (friederike.pollmann@uni-hamburg.de) or consult our website at <https://www.trr-energytransfers.de/jobs>.

Applications should include a cover letter, a tabular curriculum vitae, copies of degree certificate(s), and contact information of two referees. Please send applications by 31 January 2021 to: jobs.trr181.cen@uni-hamburg.de.

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.