



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG



RESEARCH ASSOCIATE FOR THE PROJECT “W4 GRAVITY WAVE PARAMETERIZATION FOR THE OCEAN” OF THE COLLABORATIVE RESEARCH CENTER TRR 181 ENERGY TRANSFERS IN ATMOSPHERE AND OCEAN § 28 SUBSECTION 3 HMBHG

Institution: Faculty of Mathematics, Informatics and Natural Sciences, Department of Earth System Sciences, Institute of Oceanography

Salary level: EGR. 13 TV-L

Start date: as soon as possible, fixed until 30.06.2028 (This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act [Wissenschaftszeitvertragsgesetz, WissZeitVG]).

Application deadline: 2025-04-30

Scope of work: full-time position suitable for part-time

Your responsibilities

Duties primarily include 25 % teaching and research and 75 % academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

The TRR 181 is a DFG (German Research Foundation) 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 <https://www.trr-energytransfers.de>). The subproject W4 investigates energetically consistent parameterizations of wave-induced turbulent mixing in ocean general circulation models, notably the IDEMIX (Internal wave Dissipation, Energy and MIXing) concept. Tasks specific to this position include (a) the development of a computationally cheap simplified IDEMIX model to increase its usability, and (b) a thorough evaluation of the different IDEMIX versions with respect to the characteristics of the modelled 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 the University of Hamburg, working under the supervision of Prof. Dr. Carsten Eden (University of Hamburg), Dr. Friederike Pollmann (University of Hamburg) and Prof. Dr. Dirk Olbers (University of Bremen and Alfred-Wegener-Institute for Polar and Marine Research). There will be strong collaboration with the experimental oceanographers at University of Bremen and with the climate modelers at University of Bremen, Alfred-Wegener-Institute for Polar and Marine Research (Bremerhaven), and Max-Planck-Institute for Meteorology (Hamburg). The successful candidate will also be a member of the projects' research training group ENERGY, 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. The position includes the responsibility to teach 1 hours/week.

Your profile

A university degree in a relevant field, plus doctorate.

Genuine interest and a strong background in the fields of oceanography and numerical modeling, in data analysis and in the presentation and publication of scientific results.

Applicants should have excellent English skills and enjoy in an international and interdisciplinary team.

We offer



Reliable remuneration based on wage agreements



Continuing education opportunities



University pensions



Attractive location



Flexible working hours



Work-life balance opportunities



Health management, EGYM Wellpass



Educational leave



30 days of vacation per annum

Universität Hamburg—University of Excellence is one of the strongest research educational institutions in Germany. Our work in research, teaching, educational and knowledge exchange activities is fostering the next generation of responsible global citizens ready to tackle the global challenges facing us. Our guiding principle “Innovating and Cooperating for a Sustainable Future in a digital age” drives collaboration with academic and nonacademic partner institutions in the Hamburg Metropolitan Region and around the world. We would like to invite you to be part of our community to work with us in creating sustainable and digital change for a dynamic and pluralist society.

Severely disabled and disabled applicants with the same status will receive preference over equally qualified non-disabled applicants.

Instructions for applying

Contact

Dr. Friederike Pollmann
friederike.pollmann@uni-hamburg.de

Prof. Dr. Carsten Eden
carsten.eden@uni-hamburg.de

Location

Bundesstraße 53
20146 Hamburg
[Zu Google Maps](#)

Reference number

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Application deadline

2025-04-30

Use only the online application form to submit your application with the following documents:

- cover letter
- CV
- copies of degree certificate(s)
- names of 2 references

If you experience technical problems, send an email to bewerbungen@uni-hamburg.de.

