



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG



# RESEARCH ASSOCIATE FOR THE PROJECT “PRIMEPREVENTION” PREDICTION OF ANOXIC AND SULFIDIC UPWELLING EVENTS IN THE WESTERN BALTIC SEA § 28 SUBSECTION 3 HMBHG

**Institution:** Faculty of Mathematics, Informatics and Natural Sciences, Department of Earth System Sciences, Institute for Geology

**Salary level:** EGR. 13 TV-L

**Start date:** 01.03.2024, pending approval of external funding, fixed until 28.02.2027 (This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act [Wissenschaftszeitvertragsgesetz, WissZeitVG]).

**Application deadline:** 2024-01-21

**Scope of work:** part-time

**Weekly hours:** 75 % of standard work hours per week

## Your responsibilities

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

The overall goal of the PrimePrevention collaborative project is to develop a coordinated strategy among German coastal countries to address the societal challenges related to increasing marine natural hazards due to climate change. Among those hazards are upwelling events, during which oxygen-depleted (hypoxic) and sulfidic deep-water is transported to the sea surface. These events occur regularly in late summer, especially on the east coast of Schleswig-Holstein, and not only affect the general health of the coastal ecosystem, but also the regional economy.

The goal of the project will be to gain an improved understanding of the sediment biogeochemical processes, which cause the release of hydrogen sulfide from the sediment into the water column. The new findings will be used in collaboration with microbiologists and physical oceanographers to predict and map the likelihood for the occurrence of sulfidic upwelling events in Kiel Bight and to evaluate the associated risk for local stakeholders (fishery, aquaculture, tourism). The research methodology applied will include sampling campaigns at sea, laboratory analyses and numerical reaction-transport-modeling. The project provides the opportunity to work on a timely geoscientific research topic with environmental and societal relevance.

## Your profile

A university degree in a relevant field.

- a pronounced interest in biogeochemical research questions
- experience in biogeochemical laboratory work
- ability and willingness to participate in seagoing expeditions
- experience with geoinformation systems (ArcGIS, QGIS)
- programming experience (Matlab, R, Python) would be advantageous
- fluent English communication skills and the capability to present scientific results at international conferences and in scientific publications

## We offer



Reliable remuneration based on wage agreements



Continuing education opportunities



University pensions



Attractive location



Flexible working hours



Work-life balance opportunities



Health management



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” 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

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### Location

Bundesstraße 55  
 20146 Hamburg  
[Zu Google Maps](#)

### Reference number

480

### Application deadline

2024-01-21

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

- cover letter
- CV

■ copies of degree certificate(s)

If you experience technical problems, send an email to [bewerbungen@uni-hamburg.de](mailto:bewerbungen@uni-hamburg.de).  
More information on [data protection](#) in selection procedures.



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