



Research associate (f/m/d) in the Natural Sciences Department

Job offer

Hiring date: 01.04.2025

Registration file reference:

Salary/pay grade: E 13TV-L

Closing date for applications: 15.03.2025

Job scope: 1 places: 1

Limitation of employment: 36 months

Description of activity:

In the Natural Sciences Department at the Lower Saxony Institute for Historical Coastal Research, Wilhelmshaven, has an immediate vacancy of a

Research associate (f/m/d) in the field of geography/geoinformatics

for a period of 36 months as part of the BMBF/BMUV and NWO funded project 'WADWAD' within the German-Dutch research program "Understanding complex pressures on the Wadden Sea and options for action" (<https://www.nwo.nl/en/news/five-applications-awarded-for-research-about-the-wadden-sea>). The position comprises 100% of the regular weekly working hours. It is suitable for part-time work. The location is Wilhelmshaven.

The aim of the WADWAD project is to develop an innovative, climate-resilient and ecosystem-based action plan for the land-sea transition zones of the Wadden Sea. This trilateral action plan will be designed on the basis of knowledge from various scientific disciplines, the expert knowledge of decision-makers from politics, administration and management and the opinions of local coastal residents. The focus here is on creating knowledge about the regional effects of the complex interrelationships between sediment dynamics, climate change and ecosystem loss. This will make it possible to develop ecosystem-based adaptation scenarios that offer concrete, local solutions to the challenges of sea level rise and climate change.

Your tasks:

- homogenization of existing data sets
- experience in working with relational databases (SQL)
- Spatial definition of ecological landscape units of the fossil land-sea transition zone
- GIS-based thematic data intersection
- Data customization for WebGIS services

The task of the post is to homogenize inventory data for the creation of maps, which serve to analyse the spatial extent of typical ecosystems of the land-sea transition zone of the former and modern state of the coast. The data generated will be used by the project partners for the multi-criteria cost-benefit analysis and implemented in sediment management models. In addition, the development of geoinformatics applications for GIS-relevant tools and WebGIS services as well as data management will be implemented in this project. The GIS applications created in this way are used to analyse spatial adaptation potentials and to visualize data for use in the transdisciplinary trilateral discussion forums and workshops, where they are regularly adapted and optimized with regard to a common vision.

Your qualification

- Completed university degree, especially in the field(s) of software development, geoinformatics or equivalent
- very good knowledge in working with different databases and geographic information systems (e.g. QGIS, PostGIS and Geoserver)
- Skills in cleaning, analyzing, aggregating, homogenizing and visualisation of data (e.g. Python, R)
- knowledge in Javascript or other front-end programming frameworks



- Technical skills in complex data visualisation and data base development for accessible, debatable and searchable data through secure internet connections for research community and public
- Creative problem solving
- Concept development for social involvement of people
- Social skills in supporting knowledge transfer
- Knowledge and passion for topics relevant to the Wadden Sea
- Enjoys interdisciplinary working
- social competence and ability to work in a team, commitment, initiative as well as independent and autonomous work
- Very good English and good knowledge of German; knowledge of Dutch would be an advantage
- willingness to present results to an international audience and publish in international journals
- Driving license class B

We offer

- an interesting and varied job in a multidisciplinary team
- the opportunity to gain extensive experience in inter- and transdisciplinary research that contributes to a resilient future for our coast
- an international, interdisciplinary scientific network
- the opportunity to participate in scientific conferences
- integration into the cross-institute scientific activities in Wilhelmshaven
- a challenging job in the public sector
- Flexible working and part-time options
- 30 days of holiday per year

We offer a salary in accordance with the collective agreement TV-L (13TV-L).

We welcome applicants of all nationalities. At the same time, we encourage people with severe disabilities to apply. Applications from severely disabled persons will be given preference if they are equally qualified. Please attach a proof of disability to your application. We are also working on the fulfilment of the Central Equality Plan based on the Lower Saxony Equal Rights Act (Niedersächsisches Gleichberechtigungsgesetz—NGG) and strive to reduce under-representation in all areas and positions as defined by the NGG. Therefore, applications from men are particularly welcome in this case.

Applications including a CV, a detailed overview of the applicant's professional career, a list of publications and certificates and, in the case of applicants from the public sector, written consent to view the personnel file, stating the contact person in the respective personnel department, are requested by 15.03.2025, preferably by e-mail, to

Dr. Martina Karle
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26382 Wilhelmshaven
karle@nihk.de (in CC: bungenstock@nihk.de)

For more information please contact Dr. Martina Karle (Tel. 04421 915 156 or karle@nihk.de) or Dr. Friederike Bungenstock (Tel.: 04421 915 142 or bungenstock@nihk.de)

The personal data will be stored for the purpose of processing the application. By submitting your application, you agree that your data may be stored and processed electronically for application purposes in compliance with the provisions of data protection law. Further information on data protection can be found in our data protection regulations at <https://nihk.de/datenschutz>

Application costs cannot be reimbursed.