

Cutting-edge Research for a Changing World



Helmholtz-Zentrum
hereon

PostDoc in the frame of the EU Mission: 'Restore our Ocean and Waters' project SeaDots

Reference code: 50127058_2

Commencement date: 01.01.2025

Work location: Geesthacht

Application deadline: 24.11.2024

The applicant will work in the frame of the EU Mission 'Restore our Ocean and Waters' project SeaDots, "Socio#Ecological Ocean Management Applications using Digital Ocean Twins", and aims to supply socio#ecological and socio#economic data and models. It will illustrate their application within Digital Ocean Twins by fostering innovation and collaboration across various disciplines and domains. Our initiative will showcase the application of diverse Digital Ocean Twin frameworks and demonstrate the capabilities of digital ocean twins through selected case studies. This will improve the understanding of intricate marine systems, considering their physical, biological, ecological, and economic determinants, aiding in informed policymaking.

The position is initially limited to 32 months.

Equal opportunity is an important part of our personnel policy. We would therefore strongly encourage qualified women to apply for the position. In principle, the full time position (39 h/week) is also sharable.

Your tasks

We are looking for a motivated and eager-to-learn ocean scientist with good programming skills. In SeaDots, the applicant will use coupled modelling frameworks of ocean physics and biogeochemistry developed at Hereon to setup cross-sectorial scenario simulations including climate scenarios and multi-use scenarios. A special endeavor of SeaDots is to also integrate the socio#economic component into the modelling. The applicant will be trained by our team in state-of-the-art tools and will proceed in close cooperation with the project partners from all over Europe. The position offers an excellent opportunity for an application-oriented entry into Digital Twins, whereby the work within the framework of the EU horizon mission ocean project SeaDots contributes directly to the goals of the European Green Deal Initiative.

Your profile

- a university degree and a PhD in modelling, physics or natural sciences
- a capacity and interest to work in different fields of marine science including physics, biogeochemistry, ecological processes, environmental engineering
- talent for computational scientific work is necessary
- very good written and verbal English communication skills are required
- good communication skills for communicating results to different audience including general public in relation to dissemination activities

We offer you

- an exciting and varied job in a research centre with around 1,000 employees from more than 60 nations
- a well-connected research campus (public transport bus) and best networking opportunities

Helmholtz-Zentrum Hereon

The Helmholtz-Zentrum Hereon conducts cutting-edge international research for a changing world: Around 1,000 employees contribute to the tackling of climate change, the sustainable use of the world's coastal systems and the resource-compatible enhancement of the quality of life. From fundamental research to practical applications, the interdisciplinary research spectrum covers a unique range.

Institute of Coastal Systems Analysis and Modeling

The Institute for Coastal Systems Analysis and Modeling studies the dynamics of coastal systems as part of the Earth system and develops prediction methods and future scenarios for coastal systems. One focus of our research is the study of coastal ecosystems, which are subject to increasing pressure to change due to climate change, use of coastal environments, and other human drivers.



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- individual opportunities for further training
- social benefits according to the collective agreement of the public service and remuneration up to pay group 13 according to TV EntgO Bund
- an excellent technical infrastructure and modern workplace equipment
- 6 weeks holiday per year; company holidays between Christmas and New Year's Day
- very good compatibility private and professional life; offers of mobile and flexible work
- family-friendly company policy with childcare facilities, e. g. nursery close to the company
- free assistance program for employees (EAP)
- Corporate Benefits
- a varied offer in the canteen on campus

Interested?

Then we are looking forward to receiving your comprehensive application documents (cover letter, CV, transcripts, certificates etc.) indicating the reference number code no. 2024/KS 6 until 24.11.2024.

Severely disabled persons and those equaling severely disabled persons who are equally suitable for the position will be considered preferentially within the framework of legal requirements.



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