

Post-Doc Position in the AI-Lighthouse Project KIMMCO

Company Description

Kiel University, established in 1665, is the preeminent university in Schleswig-Holstein, renowned for research and academic excellence. Situated on the Baltic Sea, Kiel is well known for its vibrant academic community, high quality of life, and easy access to nature. Joining our team means living and working in a dynamic coastal city that offers excellent recreational and cultural opportunities alongside its renowned scientific infrastructure.

Position Overview

The AI lighthouse project KIMMCO, based in Kiel, seeks a highly motivated Marine Remote Sensing Scientist (Postdoctoral Researcher) for a fixed-term position until the end of 2027. KIMMCO pioneers advanced methods for high-resolution detection and analysis of marine microalgae in the southern Baltic Sea. Utilizing autonomous survey vessels, underwater sensors, and drones—networked through edge AI—the project delivers dynamic, real-time environmental assessments with exceptional spatial and temporal resolution. The research supports improved ecological modelling and contributes to the understanding and management of changing marine systems.

Key responsibilities

- Design, develop, and apply remote sensing techniques for the assessment of phytoplankton functional groups in Baltic coastal waters
- Collect, process, and analyse multisource environmental data (including satellite, drone, and in situ platforms)
- Advance and implement algorithms for image analysis and environmental change detection
- Conduct fieldwork in collaboration with the project team, integrating new sensor technologies
- Publish research findings in leading scientific journals and contribute to conference presentations
- Participate in project proposal writing, reporting, and interdisciplinary collaboration

Your Qualifications

- Doctorate in Remote Sensing, Geography, Geosciences, Environmental Science, or related discipline
- Demonstrated expertise in water remote sensing methodologies and environmental data analysis
- Proficiency in geographic information systems (GIS) and relevant remote sensing software
- Experience in algorithm development and image analysis, with strong programming skills (Python preferred)
- Research-oriented mindset with outstanding analytical and organizational skills
- Proven track record of scientific publications and contributions to research projects
- Excellent written and oral communication skills (English essential; German proficiency advantageous)

Additional Information

The position is offered according to the German public sector salary scale (e.g., TV-L E13, subject to qualification and experience). Kiel University is committed to diversity and encourages applications from all qualified individuals, regardless of background.

Please submit your complete application package as a single PDF file to eom@email.uni-kiel.de by **20 November 2025**. This should include a detailed CV, a comprehensive list of scientific publications, and copies of academic certificates and diplomas. A brief cover letter outlining your motivation and relevant experience for the position is also required. References or letters of recommendation are welcome but not mandatory. Please use "KIMMCO Application: Marine Remote Sensing Scientist" as the email subject line.