The MARUM – Centre for Marine Environmental Sciences at the University of Bremen is offering (under the condition of job release) the position the Innovation Centre for Deep-Sea Environmental Monitoring has an opening for a full time position as an

Engineer as techn.-scientific employee (f/m/d)
specialising in software engineering,

starting at the next possible date limited until 31.12.2025. Remuneration is in pay group 13 TV-L full-time.

The job advertisement is aimed at motivated engineers with a strong interest in marine robotics for applications in marine research. The field of activity will be in the broad spectrum of the development of novel underwater systems for deep-sea observations (including vehicles, sensors, actuators, navigation, communication).

The University of Bremen aims at the increase of the proportion of women in the technical field and therefore strongly encourages women to apply.

Responsibilities:

• Co-development and realization of novel concept for sensing, navigation, communications and underwater systems for deep sea marine observations.
• Independent development from initial conception, programming, implementation and testing of software for Sensor data acquisition, processing, classification and storage.
• Self-responsible software implementation of sensor-guided control and navigation algorithms for autonomous underwater vehicles with real time requirements.
• Co-development of new operational concepts of visualization of sensor and vehicle data (including augmented and virtual reality concepts).
• Autonomous planning and supervision of system tests for underwater system applications (domestic and foreign).
• Participation in several-week long research trips (domestic and abroad).

Requirements:

• Graduated with an engineering degree (Uni-Diploma, Master) with a focus on "Software Engineering" or related discipline (i.e. embedded systems).
• Sound software knowledge and independent working method (testing, research, workflow planning, development and implementation) are required.
• Experience in the self-guided implementation of hardware and software.
• In-depth knowledge of the use of higher-level programming languages (C, C ++).
• Good knowledge of OS Linux and the Robotic Operating System (ROS/ROS2).
• English proficiency spoken and written (B2), mainly in technical English.
• Willingness to be flexible and work in a team (international research group) as well as participation in multi-week research expeditions.
The university is family-friendly, diverse and sees itself as an international university. We therefore welcome all applicants regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, sexual orientation and identity.

As the University of Bremen intends to increase the proportion of female employees in science, women are particularly encouraged to apply. Disabled applicants will be given priority if their professional and personal qualifications are essentially the same.

Please send your application with the usual documents, quoting the reference number A181/23, by 16 October 2023 to

Marine Environmental Technologies/ Deep-Sea Engineering
MARUM – Zentrum für Marine Umweltwissenschaften
Universität Bremen
Prof. Dr. Ralf Bachmayer
Leobener Str. 8
28334 Bremen

or by e-mail to
rbachmayer@marum.de with a copy to mszrejter@marum.de