



# Center of Maritime Technologies e.V.

Bramfelder Straße 164  
22305 Hamburg

CENTER OF MARITIME TECHNOLOGIES e. V. (CMT), based in Hamburg, is a membership based non-profit organisation dedicated to initiate, co-ordinate and catalyse research and innovation in the maritime industry. Through various projects and contacts, we are enhancing cooperation between the various players in industry and the academic world throughout Europe.

Our role as link between industry and academia provides insight and participation in the challenging process of turning scientific findings into exploitable knowhow, which gives our employees various opportunities for creativity and development of personal skills.

To strengthen our dedicated team, we want you at the earliest possible date for the area of:

## **Research engineer, focus composite materials**

### **Your tasks**

Within the shipbuilding industry, the introduction of new materials (such as fibre reinforced polymers FRP) and processes is hindered by the lengthy and complex certification process. In a recently launched EU funded innovation project under the technical lead by CMT, the benefits of FRP within a variety applications cases (such as load bearing walls, standardized structural elements or equipment) will be explored through the manufacturing and testing of prototypes. Besides designing, building and testing of physical demonstrators, an important point of the project is the development of the baselines for future amendments of regulatory frameworks to be able to develop a process for the approval of similar design and application cases.

Through active communication with various stakeholders from industry and academia, you will be responsible of the progress of the project. You will perform feasibility studies for the integration of the 'novel' materials within the ship design as well as for the needed processes for the industrial manufacturing and assembly process. This also includes the development and production of prototypes. In addition, you will work on the certification process of new designs and analyse the conditions for the development of new rules and regulations.

### **Your profile**

You have completed a master or diploma degree in Materials Engineering or Manufacturing Engineering with a focus on Fibre Reinforced Polymers. Ideally you have gathered professional experience in industry or science, preferably in the maritime industry. Working knowledge of the design and manufacturing of FRP structures and equipment is mandatory. In addition, you should be proficient in ANSYS and a CAD software, ideally Solidworks. Furthermore, you are fluent in English. Knowledge of German is not necessary, but an advantage.

We are offering a full time position. Due to the schedule of the related work in the project, the duration of the position is 30 months. A continued employment is sought. Please ensure that you have a working permission for Germany.

If interested, the possibility of pursuing a PhD within the project is possible.

Please send your application stating your salary expectations and earliest possible start date to:

### **Contact:**

**Center of Maritime Technologies e. V.**

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