

Do you want to do some application-driven research?

Join our research project EproBOSS

The project addresses the development of a deterministic decision support system for offshore operations in terms of wave and motion prediction. The overall objective of the project is to develop a prototype to demonstrate the applicability at the end of the project.

The system will consist of three individual constituents: sea state registrations, wave forecast and motion prediction. Surface elevation snapshots, taken continuously by on-board radar at great distance ahead the operational area, are preprocessed by a wave monitoring system and used as input for the wave forecast simulation. The predicted surface elevations at the location of operation are used for the evaluation of the corresponding offshore structure response.

To support our research team we are looking for a highly motivated student assistant who is interested to work on application-driven problems. Your scope of activity as a student assistant is versatile and includes for example:

- data preparation and evaluation
- numerical analysis and validation
- smaller programming tasks

Previous knowledge not mandatory but your areas of interest should cover non-linear wave theory, ship hydrodynamics and programming. We are looking for applicants being at the finishing line of the Bachelor degree or just started the Master studies as a long-term cooperation is being sought. The position can be filled until April 2023 and is scheduled for 39 hours/month. Please contact us if you are interested to apply for this position so that we can give you more information on the project, scope of activity and application process.

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