



**Politecnico
di Torino**



Advanced Multi-Body Numerical Modeling of an Interconnected Multi-Use Floating Platform System

Master thesis proposal at the Marine Offshore Renewable Energy Lab Department of Mechanical and Aerospace Engineering Politecnico di Torino

👤 Recommended profile:

Mechanical Engineering, Aerospace Engineering, Mathematical Engineering, Physics of Complex Systems

💡 Topics involved:

Floating islands

✉ Contact references:

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Proposal description

The aim of this thesis proposal is the advanced numerical modeling of multi-body floating systems, composed of modules interconnected by elastic connections. The development of such advanced models allows for the prediction of the dynamic behavior of the system under wave action and enables the estimation of the loads acting on the structures and connections.

This thesis activity is part of the "Seaform" project studying the feasibility of creating communities on floating artificial islands (<https://www.seaform.it/>)