



**Politecnico  
di Torino**



## **Numerical modelling and design of floating breakwaters**

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, Civil Engineering

### **💡 Topics involved:**

Floating islands

### **✉ Contact references:**

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## **Proposal description**

The thesis topic concerns numerical modeling and design of floating breakwaters for the protection of future floating cities. Objectives of the thesis are:

- Development of the numerical model of floating breakwaters: hydrodynamic interaction and moorings
- Definition of system performance
- Optimization and design of the floating breakwater

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