

D-ICE ENGINEERING

*Design, Innovation, Control & Expertise for marine platforms
and complex offshore operations*



Partners



Research, Education
& Innovation
in PAYS de la LOIRE

GENERAL FRAMEWORK OF THE ACTIVITY

We are an engineering company offering cutting-edge consultancy in high-technology and innovation. Our company is extremely specialized in offshore engineering and marine platform control.



SPECIFIC SKILLS FOR MRE

- *Multibody modeling with robotics formalism, coupled with hydrodynamics interactions and large deformation cable models,*
- *Marine platform control & dynamic positioning expertise*
- *Machine's control optimization in order to increase performances and lifetime*

PRODUCTS OR SERVICES FOR MRE

- *Simulation of marine operations,*
- *Expertise and commitment for DP systems review and design of marine operations*
- *Machines' performance optimization*

TEST FACILITIES APPLICABLE TO MRE

- *Complex hydrodynamics modelisations (with FRyDoM tool)*
- *Advanced and accurate sensors (IMU, GPS, bathymetry, etc)*
- *Marine platform*

RESEARCH or INNOVATION PROJECTS in MRE FIELD

- *FRyDoM: development of an innovative and disruptive framework for the simulation of complex dynamic systems for Marine Renewable Energies.*

[FRyDoM presentation online](#)



OCTOPODES



Bottom fixed offshore wind



Floating offshore wind



Tidal Energy



Wave Energy



Ocean Thermal Energy Conversion (OTEC)



Key Enabling Technology

Value chain

- *MRE system engineering*
- *Logistics*
- *Offshore installation*
- *Dismantling*
- *Maintenance*

FUNDING



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