



Carnot MERS institute is the first Carnot institute dedicated to the ocean and supports companies in the marine sector in the safe, sustainable and smart development of maritime activities.

Carnot MERS institute is engaged in work on the performance of structures at sea, minimizing the environmental impact of and on these constructions, and the emergence of new responsible ocean resource management sectors.

www.carnot-mers.com

CARNOT MERS INSTITUTE, A DRIVER OF THE BLUE ECONOMY

The Carnot MERS institute (Marine Engineering Research for Smart, Sustainable and Safe Seas) aims to meet the expectations of the major economic and societal challenges of the Blue Economy. Supported by collaboration between Ifremer and the Ecole Centrale Nantes and associated with the Universities of Nantes, Bretagne Ouest and Bretagne Sud and the CNRS, the Carnot MERS institute aims to drive the smart, sustainable, and safe development of maritime activities.

13 laboratories ...

Smart maritime engineering:

- Environmental and structural monitoring
- Digitalizing standard processes
- Robotics

Sustainable maritime engineering:

- Marine Renewable Energies
- Coastline protection
- Responsible fisheries and aquaculture
- Assessment of cumulative impacts

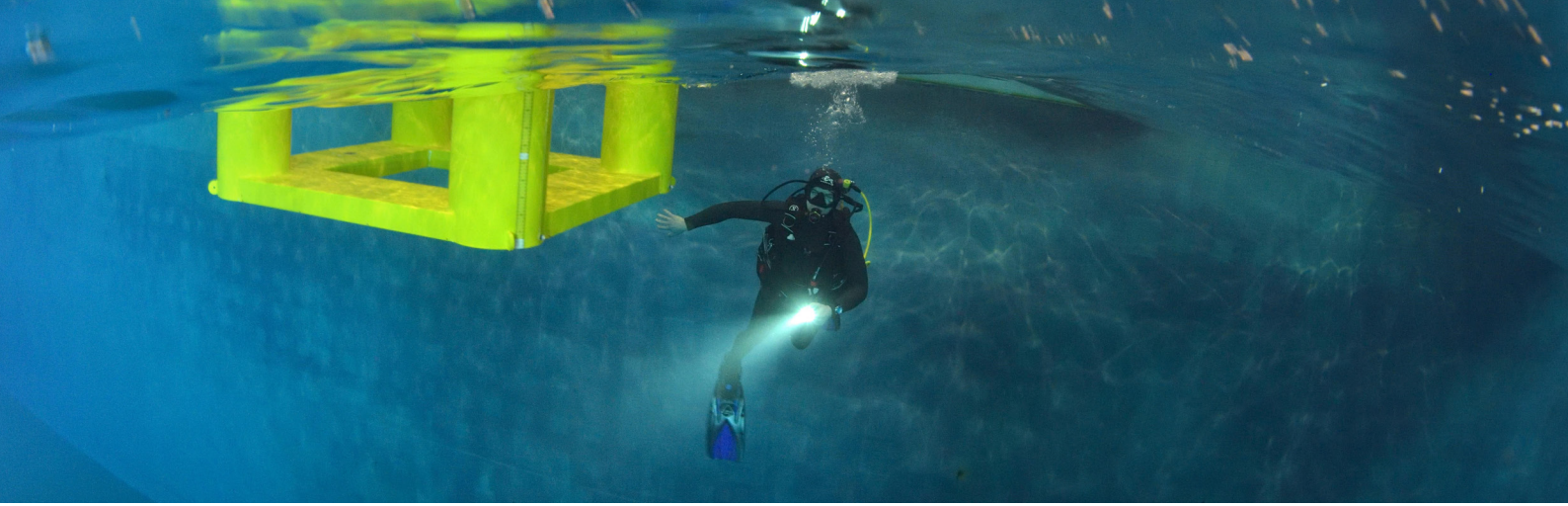
Safe maritime engineering:

- Innovative materials adapted to environmental challenges
- Characterization of underwater hazards
- Geological resource exploration and exploitation techniques
- Hydrodynamic performance of structures at sea

Target markets

- Maritime transport and yatching,
- Offshore energy and infrastructures,
- Marine renewables,
- Fisheries and aquaculture technologies,
- New ocean resources.





...present on all French coastlines

- Wave, current and ocean engineering tanks,
- Offshore test stations,
- Material testing benches,
- Aquaculture laboratories,
- Marine Computing and Data Center
- Coastal and Offshore Observatories Network

Carnot MERS institute conducts work on:

- The performance of offshore structures,
- Minimizing the impact of these constructions on marine ecosystems,
- The impact of the marine environment on these structures,
- The emergence of new responsible sectors, harnessing ocean resources

Key figures

**Permanent staff
(full-time equivalent): 670
PhD Students: 200**

**Partnership incomes
with industry: €6,3M
Global budget: €59,8M**

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