

MARINE MECHANICAL ENGINEER (Mechanical Systems, 3D Design & Integration)

Reference : CH_JOB_26_05_MECH
Publication Date: 2026-06-08
Contract : Full-time, On-site
Location : Valencia, Spain
Start Date : Q3 2026
Experience Level: 4+ years
Education : MSc or PhD
Apply to : jobs@caponnetto-hueber.com

ABOUT CAPONNETTO HUEBER

Caponnetto Hueber (CH) is a leading engineering and innovation firm specializing in high-performance hydrodynamics, foiling technologies, and smart maritime systems. Acting as both a scientific laboratory and an engineering consultancy, CH delivers advanced engineering services and performance-driven design solutions for yachts, ships, and autonomous vehicles, from concept development to prototype validation.

Based in the Marina of Valencia, Spain, CH combines a rigorous scientific approach with state-of-the-art CFD, optimization, and simulation tools. The company supports clients across the nautical and maritime sectors with advanced expertise in naval architecture, propulsion systems, energy efficiency, fluid dynamics and performance prediction, with a strong focus on innovation, performance, efficiency, and sustainability.

CH has participated in the last six consecutive America's Cup campaigns, contributing to victories in 2010 and 2013, and collaborates with top-tier shipyards, design offices, and marine innovators worldwide. Its work spans from high-performance foiling yachts to wind-assisted ships, and from racing sailing yachts to autonomous marine vehicles, shaping the future of marine design through innovation and applied research.

Main Services:

- Hydrodynamics and Computational Fluid Dynamics (CFD)
- Naval architecture, including hull, appendage, and hydrofoil design
- Naval engineering, prototyping and testing
- Propulsion, energy-saving devices and energy-harvesting systems design and optimization
- Simulation and Performance Predictions for sailing yachts, wind assisted ships, motor yachts and autonomous marine vehicles.

Main R&D activities:

- High-efficiency hydrodynamic concepts for yachts, ships, and USVs (including hydrofoils)
- Wind Propulsion Technologies: performance and emissions prediction methods and tools
- AI-assisted design, simulation and performance prediction tools
- Smart and autonomous vessel systems

Caponnetto Hueber is expanding and looking to integrate motivated, committed professionals eager to work in a competitive, high-tech, and impactful international environment.

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THE ROLE

Description:

We are looking for a **Marine Mechanical Engineer** to join our technical team and contribute to the design, development, integration, and validation of advanced mechanical systems for yachts, foiling vessels, autonomous marine vehicles, and innovative marine prototypes.

The role focuses on **practical marine mechanical engineering**, including 3D design, systems integration, mechanisms, hydraulics, mechatronics, production support, and testing.

You will work closely with naval architects, naval and structural engineers, control engineers, suppliers, and manufacturers to transform complex system requirements into reliable, practical, and manufacturable solutions.

Depending on experience, the position may progressively evolve toward increased technical responsibility and coordination within specific projects.

Key Responsibilities:

- Contribute to, support, or lead **engineering and technical solution development**, from feasibility and concept studies through detailed design, production support, and implementation, depending on project scope and seniority
- Design and develop **mechanisms and mechanical systems** for yachts, crafts, and advanced marine vehicles, including rudders, hydrofoils, lifting and canting appendages, actuators, and related systems
- Prepare and update **3D CAD models, 2D drawings, technical specifications, and engineering documentation**
- Integrate **mechanical, hydraulic, electromechanical, and propulsion-related systems** into complex marine platforms
- Work with **suppliers, manufacturers, shipyards, and technical partners** to support production, assembly, commissioning, and testing
- Participate in **prototype assembly, commissioning, testing, and on-the-water validation**

CANDIDATE PROFILE

Background:

- **Mechanical, Marine, Naval, Mechatronics, or Aeronautical Engineer**, holding an MSc or PhD in Mechanical Engineering, Naval Engineering, Mechatronics, Aeronautical Engineering, or a closely related field

Experience:

- **Minimum 4 years of professional experience in mechanical engineering, marine mechanical systems, mechatronics, or advanced engineering projects**
- Hands-on experience with mechanical systems design, 3D modelling, detailed engineering, and technical documentation
- Experience with hydraulic systems, marine mechanisms, appendage systems, or propulsion-related systems is a strong advantage
- Experience working with suppliers, manufacturers, shipyards, or technical partners during production, assembly, commissioning, or testing phases

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Technical Requirements:

- Proven experience in **mechanical systems design and integration**
- Proficiency with **3D CAD tools**, such as Rhinoceros, Siemens NX, or equivalent
- Ability to produce clear **2D drawings, technical specifications, and production documentation**
- Good understanding of **mechanical components, mechanisms, hydraulics, actuators, and marine systems integration**
- Practical engineering judgement and ability to propose robust, manufacturable, and maintainable solutions

Additional Valuable Skills:

- Experience with **hydrofoils, lifting appendages, rudders, keels, centreboards, canting keel systems, or similar marine mechanisms**
- Experience with **hydraulic systems, actuation systems, sensors, control systems, or electromechanical systems**
- Knowledge of manufacturing processes, including metallic parts, composites, machining, additive manufacturing, and assembly methods
- Hands-on experience with **prototyping, workshop activities, assembly, commissioning, or testing**
- Familiarity with high-performance sailing yachts, foiling yachts, marine autonomous vehicles, or advanced composite vessels
- Understanding of structural design and load paths is useful, although this is not primarily a structural engineering role

Other Requirements:

- Fluent English (working language)
- Italian, French or Spanish fluency is a plus
- EU residency or valid EU work permit
- Willingness to relocate to Valencia, Spain
- Proactive, organized, rigorous, autonomous and flexible.
- Open-minded with the ability to adapt to innovate.
- Passion for technology, yachts, the ocean, and water-based activities

CH values candidates who want to contribute to advanced marine technologies by combining strong engineering judgement, practical design capability, hands-on development, and real-world testing.

HOW TO APPLY

If you are willing to be part of an international group who aim to lead the innovation, the technology development and the transformation of the nautical and maritime industries towards more efficient, cleaner and more sustainable industries, please contact us at jobs@caponnetto-hueber.com using the offer reference in the title and include your **CV and references in English**.