

Naval Mechanical & Structural Engineer

Reference: CH_JOB_25_03_MECH_STR

Publication Date: 2025-06-23

Education Level: Master or PhD

Duration: Full-time, On-site

Seniority: 4+ years of experience

Start date: Q3 or Q4 2025

Location : Valencia, Spain

Answer to: jobs@caponnetto-hueber.com

COMPANY PRESENTATION

About us:

Caponnetto Hueber (CH) is a scientific laboratory and a consulting company specialized in fluid dynamics, energy efficiency and performance-driven naval architecture.

CH delivers high-end engineering services and develops innovative, efficient design solutions, from concept to prototype, for the nautical and maritime industries.

Headquartered in the iconic Marina of Valencia, Spain, in a former America's Cup base, CH combines a rigorous scientific approach, state-of-the-art CFD and optimization tools. Driven by a passion for innovation, CH shapes the future of marine design, from high-performance foiling yachts to zero-emission vessels, and from sailing yachts to autonomous vehicles.

CH has participated in the last six consecutive America's Cup campaigns (with victories in 2010 and 2013), and collaborates with top-tier shipyards, design offices, and marine innovators worldwide.

Main services:

- Computational Fluid Dynamics (CFD) and performance simulations.
- Hydrodynamic and aerodynamic optimization.
- Hulls, appendages, foils and propulsion design.
- Naval engineering and prototyping.
- Efficient and foiling yacht development.
- Low and 0-emission yachts and vessels.

R&D Lab activities:

- Wind Assisted Ship Propulsion (WASP) performance and emissions predictions.
- Propulsion and energy harvesting systems design and optimization.
- Hydrodynamic concepts for yachts, ships, and marine autonomous vehicles.
- Custom design software and simulation tools development.

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

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Are you passionate about developing and engineering cutting-edge, energy-efficient sailing and motor yachts? If so, we have an exciting opportunity for you to join our team as a mechanical and structural engineer.

CANDIDATE PROFILE

Profile:

- **Mechanical, Structural, or Naval Engineer** with a Master or a PhD in Mechanical Structural or Naval Engineering.

Experience:

- **Minimum 4+ years experience in mechanical or structural engineering in the naval, yachting, marine, aeronautical, or renewable energy sector**
- Proven experience in system design and integration, structural design and analysis, and component engineering
- Prior involvement in yacht engineering and construction, hydrofoil craft, or autonomous vessel prototyping is a strong plus
- Experience collaborating with external consultants, suppliers, and manufacturers

Job Description:

We are looking for a Mechanical & Structural Engineer with multidisciplinary expertise in systems and structural design to contribute to the development of advanced yachts, foiling crafts, and autonomous vessels. The role combines hands-on engineering with the coordination of external partners, consultants, and suppliers.

Key Responsibilities:

- Design and develop structural components and mechanical systems for yachts, foiling vessels, and autonomous platforms
- Support and supervise integration of onboard systems (mechanical, propulsion, electrical interfaces)
- Perform and review 3D modeling, technical drawings, and installation plans
- Contribute to prototyping, testing, and design validation processes
- Coordinate technical documentation and compliance with applicable rules and requirements
- Collaborate with partners, subcontractors, and suppliers

Technical Requirements:

- Proficient in CAD software (e.g., Rhino, Siemens NX, or Catia) for 3D modeling and 2D drafting
- Experience with FEM/FEA tools for structural analysis
- Good understanding of marine systems, structural loads, and composite or aluminum construction methods
- Ability to coordinate structural, mechanical, and systems integration aspects with specialists in propulsion, electronics, mechatronics, and naval architecture to ensure coherent and compatible design solutions
- Familiarity with classification society standards and regulatory frameworks would be a strong plus.

Other Requirements:

- Fluent in English as it is the working language at the office.
- EU resident or in possession of an EU work permit.
- Relocate to Valencia, Spain.
- Proactive, organized, rigorous, autonomous and flexible.
- Open-minded with the ability to adapt to innovate.

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- Passionate about innovation, technology, yachts, the ocean and water activities.

CH values candidates who have a real passion and interest for making a meaningful impact in the maritime and nautical sectors by actively contributing to decarbonization efforts.

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 tittle and include your **CV and references in English**.