

NAVAL ARCHITECT / YACHT DESIGNER specialized in HYDRODYNAMICS / PROJECT MANAGER

Full Time Position

Reference	: CH_JOB_20_01_PM_NA
Publication Date	: 2020-10-22
Activities	: CFD – Hydrodynamics - R&D – Yacht, appendages and propulsion design
Education Level	: Master or PhD
Duration	: Full Time Job
Seniority	: more than 4 years of experience in the field
Start date	: January 2021
Location	: Valencia, Spain
Answer to	: jobs@caponnetto-hueber.com

1. Caponnetto-Hueber Presentation

Background:

Caponnetto-Hueber is an innovation and technological laboratory specialized in fluid dynamics and energy efficiency. The company provides naval architecture solutions, innovative concepts, fluid dynamics services and products for the maritime world.

Caponnetto-Hueber main topics of expertise are hydrodynamics, aerodynamics, shapes optimization and numerical simulations (CFD i.e. Computational Fluid Dynamics)

Caponnetto-Hueber has been involved with America's Cup for more than 2 decades and has won it several times.

Services:

Caponnetto-Hueber provides innovative services in fluid dynamics, using high-end methodologies and tools for naval architects, yacht designers, shipyards and ship owners to improve design, performances and efficiency, to lower consumptions and emissions.

- Innovative Concepts
- Design
- Naval Architecture
- Foiling Yachts
- Computational Fluid Dynamics (CFD)
- Hydrodynamics
- Aerodynamics

Main current projects:

- Innovative concepts and solutions
- Flying electric boat design and flight control
- Mega-yachts hydrodynamics and CFD
- Propellers design and hydrodynamics
- Racing and cruising sailing yachts hydrodynamics and CFD
- America's Cup (36th AC)
- R&D

The company is currently expanding its workforce and is willing to integrate motivated and hardworking professionals who want to work in a competitive, high-technological and international sector.

The design office is located within the Marina of Valencia, Spain.

2. Collaborator Profile

Profile:

- Naval Architect / Project Manager with a strong background in hydrodynamics and CFD to join our design office to follow the development of conventional and unconventional yacht projects as well as the R&D projects.

Experience:

- Naval Architect, Yacht Designer or Marine Engineer with more than 4 years of experience in at least one of these fields
 - o Naval architecture, design and optimization of motor yachts
 - o Naval architecture, design and optimization of ships
 - o Naval architecture, design and optimization of flying boats
- Strong knowledge of hydrodynamics and CFD
 - o You have been a CFD user or developer in a previous work experience
 - o OR you have been working and interacting with CFD engineers to validate and improve your designs

Job Description:

- You will work hand in hand with the Technical Director and be responsible of the coordination between the design office, the clients and the consultants. (**External Coordination**)
- You will be leading the company projects, be responsible of the planning, the allocation of the resources between Production, Development and Design, the deliverables, the deadlines and be the link between the technical team and the clients (**Project Management**).
- You will be in charge of the conceptual study and design projects and will use and develop your creativity and engineer skills to develop, design and validate new concepts and innovative solutions (**Design**).
- You will analyze and criticize the results of the CFD and write comprehensive reports to help and guide the clients to improve their design or objectives (**CFD**).
- You will have to be well organized and will be responsible of the technical documentations and its archiviatiion.

Technical Requirements ("MUST"):

- Deep knowledge of
 - o Naval Architecture
 - o Yacht Design
 - o Fluid Dynamics
- General knowledge of structure, pre-dimensioning, mechanics and systems
- Communication, management and organizational skills
- Good knowledge of 2D and 3D CAD

Technical Skills Appreciated ("PLUS"):

- Deep knowledge of motor yachts, propulsion and propellers
- Experience and/or knowledge of Wind Assisted Ship Propulsion systems
- Experience and/or knowledge of foils and flying boats design
- Good Knowledge of Star-CCM+ or with Open-Foam for naval applications.
- Good Knowledge in programming and automatization using Python or Excel.

Other Requirements ("MUST"):

- English is compulsory as it is the working language at the office.
- **Dynamic, rigorous, hard-worker, to maintain the quality standard of the group.**
- Autonomous and responsible to be fully in charge of your own projects.
- Management skills to lead and support highly skilled engineers
- Curious, passionate, eager to learn and to push your knowledge.

- Humble and able to work within an international team.
- Open-minded with the ability to adapt to innovate.
- Eager to apply hard sciences to the naval industry.

Other Requirements ("PLUS"):

- Spanish, Italian and/or French fluency would be useful.

Due to the nature of our work and the level of excellency that we need to maintain and always increase as a group, we look for engineers / scientists who are passionate, have a very strong academical background and clear understanding of the physical phenomena, eager to learn and develop new competences, who are pro-active and make things happens, are not afraid of challenge and are willing to push themselves to be the best individually and collectively, who are team players and are able to share their knowledge and their motivation with the group, are open-minded, creative, curious and responsible of their projects and tasks, who wants to push technology to the limits and who are willing to be part of an very international group who aim to be the leader in innovation and technology in the nautical and maritime industry.

Contact us at **jobs@caponnetto-hueber.com** using the offer reference in the tittle and include your CV and **references in English are mandatory**.