

## **NAVAL ARCHITECT specialized in HYDRODYNAMICS / PROJECT MANAGER**

### **Full Time Position**

**Reference** : **C&H\_JOB\_19\_07\_PM\_NA**  
Publication Date : 2019-11-15  
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 : February 2020  
Location : Valencia, Spain  
**Answer to** : **jobs@caponnetto-hueber.com**

### **1. Caponnetto-Hueber Presentation**

#### Background:

Caponnetto-Hueber is a leader in naval architecture solutions, innovative concepts and fluid dynamics services in the maritime world focusing on the racing, sailing, flying and mega- yachts.

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 (36<sup>th</sup> 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 racing sailing boats
  - 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, mechanics and systems
- Communication, management and organizational skills
- Good knowledge of 2D and 3D CAD

### Technical Skills Appreciated ("PLUS"):

- Deep knowledge of motor yachts and propulsion design
- Deep 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, Java and 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 and Italian fluency would be useful.

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