

PROJECTS COORDINATOR / SENIOR NAVAL ARCHITECT specialized in FLUID DYNAMICS

Full Time Position

Reference : **CH_JOB_21_01_PC_NA**
Publication Date : 2021-02-23
Education Level : Master or PhD
Duration : Full Time Job
Seniority : more than 4 years of experience in the field
Start date : March/April 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 in 2010 and 2013 and is currently working for Italian Challenger, Luna Rossa Prada Pirelli, providing all the numerical simulations and responsible of the foils design.

Caponnetto-Hueber brings advanced technologies and its creativity to the whole maritime and nautical industries.

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
- 0-emission ships and yachts
- Wind Assisted Ship Propulsion (WASP) systems
- 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 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 specialized in Fluids Dynamics / R&D projects coordinator with a strong background in hydrodynamics and CFD to join our design office to follow the development of conventional and unconventional yachts and ships projects as well as the company 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 be leading the company projects and be the coordinator of the technical group with direct connection with our Technical Director. You will be responsible of the planning, the allocation of the resources between Production, Development, Design and R&D, the deliverables, and the deadlines (**Projects Coordination**).
- 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 lead the conceptual studies and design projects and will use and develop your creativity and engineer skills to develop, design and validate new concepts and innovative solutions (**Design & Innovation**).
- 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 lead and be a key player in the R&D programs (**R&D**)
- You will assist the commercial group to create and validate the commercial offers (**Pre-Sales**)
- You will have to be well organized and will be responsible of the technical documentations and its archiviatiion.

Technical Requirements ("MUST"):

- Deep knowledge of naval architecture, marine engineering and fluid dynamics
- Experienced with project management and coordination
- Good oral and written communication, management and organizational skills
- General knowledge of 2D and 3D CAD
- General knowledge of structure, pre-dimensioning, mechanics and systems

Technical Skills Appreciated ("PLUS"):

- Experienced with Agile, Scrum or Sigma Project Management
- Deep knowledge of motor yachts, yacht design, 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 Open-Foam for naval applications.
- Good Knowledge in programming and automatization using Python and Excel.

Other Requirements ("MUST"):

- English is compulsory as it is the working language at the office.
- **Dynamic, pro-active and problem solver to lead and guide the technical group**
- **Rigorous, hard-worker, to maintain the quality standard of the group.**
- Autonomous and responsible to be fully in charge of your own projects.
- 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.**