

Mathematician – Data Scientist – Programmer

Full Time Position

Reference : **C&H_JOB_19_04_SC**
Publication Date : 2019-08-01
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.
Start date : September/October 2019
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 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 design office is located within the Marina of Valencia, Spain.

The company is currently expanding its workforce of 8 persons and is willing to integrate motivated and hardworking professionals who want to work in a competitive, high-technological and international sector.

2. Collaborator Profile

In order to develop new design and analysis tools, the company is looking for multi-physics scientist with a strong background in Mathematics who is eager to apply computer sciences to the nautical and naval industry.

Description:

- You will improve, develop and integrate new tools, fluid dynamics codes, optimization algorithms and programs, data viewer and data management tools (**Production**).
- You will be in charge of the quality, the standards, the testing, the versioning and deployment of the different tools and programs (**Quality Control**).
- You will report directly to the Technical Director and assist him on implementing the R&D strategy (**Development**).
- You will be coordinating the different development projects which done internally or sub-contracted (**Coordination**).

Profile:

- Master or PhD in one of the following fields:
 - o Mathematics, Computer / Data Science, Engineering
 - o or a field relevant to the job duties mentioned.

Experience:

- More than 4 years after Master with a minimum of 2 years of experience in the industry is necessary.
- It is not compulsory to have experience in the field of the naval architecture, marine industry nor in the fluid dynamics, but it would be a PLUS.

Qualifications:

- Numerical methods
- Optimization methods
- Programming
- Scripting
- Big Data
- Neural network training
- Machine Learning

Technical Requirements ("MUST"):

- Java or C++
- Python
- Shell Scripting
- Database and Data Manipulation Language.

Technical Skills Appreciated ("PLUS"):

- Git Management
- Simulation Engineering
- IT and HPC
- Graphics and Data visualization
- Web Dev and JavaScript

Other Requirements ("MUST"):

- English is compulsory as it is the working language at the office.
- **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.
- Willing to deliver and manage projects in a timely manner.

Contact us at **jobs@caponnetto-hueber.com** using the offer reference in the title and include your CV and references in English will be highly appreciated.