

## AERODYNAMIC ENGINEER (F/M) – HR-PERF-004

### About AYRO

In a world facing unprecedented environmental challenges, AYRO has developed an innovative wind-powered solution to unlock the decarbonisation of global maritime transport through the use of sustainable hybrid propulsion. OceanWings® is a patented, automated, self-raising and lowering vertical wingsail system that enables newbuild or existing ships to significantly reduce their fuel consumption and resulting carbon footprint by up to 50%. By 2050, shipping could represent 17% of human CO<sub>2</sub> emissions if no action is taken. The emission reduction potential of OceanWings® could be measured in gigatons of CO<sub>2</sub> in the next 5 to 10 years.

Founded in 2018, AYRO is a French industrial start-up with headquarters in Paris and a factory in the port area of Blainville-sur-Orne in Caen, which benefits from direct access to the sea. Bringing together more than fifty passionate men and women with diverse expertise, the company has recently equipped the newbuild cargo ship, Canopée, with four of its first 37-metre-high OceanWings® wingsails.

**CANOPEE, THE MOST-ADVANCED WIND-POWERED TRANSPORT SHIP  
IN HISTORY, EQUIPPED WITH FOUR OCEANWINGS®**



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## Job Overview

As part of the performance and R&D team at AYRO's Paris offices, you will be involved in carrying out aerodynamic performance studies, either internal or commissioned by our clients for projects involving the installation of OceanWings® on their retrofit or newly built vessels. You will also work at predicting the performance and optimizing wing settings on ships already operating with OceanWings®. Besides, you will be involved in the design optimization of the OceanWings® to further improve their performance.

With a degree in engineering, you are passionate about technological challenges and have a good knowledge in aerodynamics and applied mathematics.

## Main Missions

In cooperation with the engineer in charge of the performance division, your tasks will include:

- Construction of aerodynamic models on various projects, optimizing the overall performance considering the interaction between wings
- Developing and improving physical models for predicting the performance of OWs and competing solutions
- Wing design optimization (new wing dimensions, product range etc.)
- Explore new strategies to control the OceanWings trims
- Involvement in wind tunnel test and sea trials, testing of new sensors to enhance OceanWings trims
- Identification of the critical phases of the process and the expected outputs; proposal of appropriate standardizations, validations and visualizations to process the data, development of performance analysis tools
- Participation in scientific conferences and redaction of publications can be foreseen.

## Profile & Skills required

- Ability to analyse and summarize
- You are creative, autonomous, reliable, curious and dynamic
- Proficiency in programming (Python, etc.)
- Excellent mathematical skills
- Knowledge of the maritime environment (ideally)
- Excellent level of English and French

## What we offer

- Create a completely new product that will have a real impact on the environment and join a team with strong motivation to achieve that
- Participate and assist in the launching of our projects in the coming months
- Reinforced by the expertise of your colleagues and supervised by a lead engineer, you will take your own technical decisions
- You will be responsible and autonomous on your subjects, the team counting on your expertise.

## Conditions

- Permanent position (CDI) based in Paris, possible travels in France and abroad
- Work in a pioneer spirit and substantial growth
- Availability: as soon as possible
- Remote work: 6 days/month possible even during the trial period and to be organized freely
- Recruitment process with several interviews (via recruitment agency)

## JOIN US AND GIVE YOUR CAREER WINGS!

We are a team of enthusiastic experts committed to unlocking the decarbonisation of global maritime transport through the use of an innovative wind-powered solution. At AYRO everyone is invited to combine their talent and imagination with cutting-edge spirit to develop tomorrow's maritime industry.

If you wish to create the change, please send your resume and cover letter with Ref: HR-PERF-004 to [hiring@ayro.fr](mailto:hiring@ayro.fr) or you can apply directly here:

[START THE ADVENTURE →](#)