

CFD Engineer (M/F)

La Rochelle (Lagord), France

Genevos: Decarbonising the maritime sector

A unique opportunity to innovate fuel cell solutions for the marine sector to eliminate pollution and increase efficiency.

Genevos is a global leader in electrochemical fuel conversion technologies for marine applications in order to reduce ship emissions and accelerate the transition to net zero in the maritime sector. Genevos produces innovative fuel cell power modules that convert alternative fuels such as hydrogen, LNG and methanol into electricity at high efficiency and eliminating pollution in the process.

Culture

If you are passionate about positive environmental change and looking to play a key role in a fast-growing startup, Genevos could offer you the adventure and fulfilment you are seeking.

Genevos is driven by a strong team of self-motivated individuals who take initiative in their work, are creative, and thrive on solving engineering challenges.

The role

Genevos is recruiting an experienced CFD Simulation Engineer to strengthen its product development team. You will play a key role in the design, simulation and thermofluidic validation of innovative subsystems integrated into our marine fuel cell solutions.

Reporting directly to the Technical Manager, the role includes the following:

- Modelling and simulation of air and thermal fluid flows up to 750°C in internal and external environments (manifolds, heat exchangers, enclosures, ventilation spaces, etc.);
- Analysis of heat transfer and thermal-mechanical coupling for the design of reliable and efficient systems;
- Contributing to product design (choice of architectures, heat exchanger sizing, pressure drop optimisation, overall thermal management);
- Interpretation and synthesis of simulation results to inform mechanical design and system architecture choices;
- Participation in experimental validation: preparation, monitoring and correlation between CFD results and real-world tests;
- Drafting technical reports (assumptions, modelling, results, recommendations) and presenting them at design reviews;
- Contribution to R&D activities on thermofluid phenomena specific to high-power fuel cells.

Experience/Qualifications required

- At least 5 years' experience in CFD simulation applied to the design of thermal products or systems;
- Strong understanding of high-temperature flow, convection and heat transfer phenomena;
- Proficiency in CFD simulation software
- Knowledge of mechanical design tools (e.g. SolidWorks);
- Ability to use simulation results to guide design and experimental validation;
- Education: Mechanical or energy engineer or equivalent;
- Professional English required (technical meetings, documentation).

Additional skills appreciated:

- Scripting skills (Python, MATLAB) for post-processing or case automation;
- Experience in the field of fuel cells, heat exchangers or complex high-temperature fluidic systems;
- Knowledge of marine or industrial environments.

Personal skills required

- Self-motivated and able to set priorities, manage time effectively, multitask and adapt;
- Results-oriented approach and commitment to continuous improvement;
- Excellent interpersonal skills and strong sense of ethics.

Additional information

- Work location: Lagord, Charentes-Maritimes, 15 minutes from La Rochelle by bicycle;
- Contract: Permanent and full-time (open-ended contract);
- Start date: As soon as possible

Contact

If you wish to apply for this position, please send your CV and cover letter to careers@genevos.com

Only qualified applications will be considered.

All applications will be treated confidentially. Please refer to our privacy policy for further details.
www.genevos.com/privacy-policy/