



CFD Engineer

Job Description

Job Title: CFD Engineer

Location: Oxford, UK

Job Type: Full-Time

Job Summary: We are seeking a highly motivated and skilled CFD Engineer to join our team from current graduates with up to 5 years relevant experience. The successful candidate will be responsible for setting up and running CFD simulations on a range of projects, as well as developing our CFD tools and processes.

Responsibilities:

- Work closely with the Head of CFD and Simulation on the development of simulation methodologies and tools to improve the accuracy and efficiency of CFD simulations.
- Collaborate with the aerodynamics and design team to continuously improve the CFD tools and processes.
- Set up and undertake CFD simulations and analysis to evaluate aerodynamic performance of various vehicles and products.
- Work with the experimental testing team to ensure CFD results match experimental data, and vice versa.
- Keep up-to-date with the latest CFD trends, technologies, and establish links with academia and industrial partners to ensure we have the latest industry standard CFD tools

Requirements:

- Bachelor's or Master's degree in Mechanical Engineering, Aerospace Engineering, Computer Science or a related field.
- Strong background in aerodynamics theory and fluid dynamics principles, and CFD testing methodologies.



- Ideally 2+ years of experience in CFD simulations, preferably in the motorsport industry. Although strong graduates, including those graduating this summer, with good practical CFD experience from University will also be considered
- Proficient in using CFD pre-processing and solving software (STAR-CCM+ is desired. ANSA, OpenFoam would be a bonus) and post-processing tools (EnSight is desired. ParaView would be a bonus).
- Proficient in creating and maintaining complex Java and Python code.
- Experience with Html(5)/JS/Unix/Bash/Powershell/VBA is also a requirement.
- Experience using Linux operating systems is a requirement.
- Full stack development experience would be a bonus.
- Experience in HPC environments, workload managers and SLURM is desirable.
- Experience with CAD software (SolidWorks, CATIA, etc.) is desirable.
- Excellent analytical, problem-solving, and communication skills.
- Ability to work collaboratively in a fast-paced team environment.

We offer competitive salary packages and benefits, as well as the opportunity to work with a world-class team of engineers and designers. If you meet the requirements above and are excited about the prospect of working on a variety of projects through CFD simulation, please apply with your CV, cover letter, salary expectations, and soonest possible start date to info@aero-dynamique.com by 2nd August 2024.

