

# Aerodynamics

## CFD Engineer



Green innovation meets performance

## Our Project

Formula Electric Belgium is a student-based race team that pushes green innovation to performance. We design and build our own electric race car each year to participate in international Formula Student competitions. We are looking for pioneers to challenge the status quo and bring our top-notch electric race car to the next level. As a postgraduate student, you will research, design, and test your systems together with a group of highly motivated students. You will innovate together with your team members and numerous companies to develop our next generation formula student race car.

## Function

Join us as a CFD Engineer and take the lead on designing and optimizing the **aerodynamic package** of our formula student race car! You'll use Siemens **Star CCM+** software to simulate the airflow over the car and its various aerodynamic components, including a front wing, rear wing, and diffuser, to calculate drag and downforce. With your knowledge of CFD, you'll be able to iterate through a variety of design options to find the ideal solution, then **validate** your results on the track.

Not only will you be pushing the boundaries of aerodynamics, but you'll also have the opportunity to see your designs come to life as you **produce** and mount the components yourself! You'll need a basic understanding of composite structures and a hands-on approach to bring your designs to the finish line. So, if you're a creative problem-solver with a passion for aerodynamics and composite structures, apply now for a career-defining role as our CFD Engineer!

## Up for the challenge?



Submit your **resume** and **motivation letter** (one page) to [recruitment@formulaelectric.be](mailto:recruitment@formulaelectric.be)

## Profile

- Bachelor/Master Engineering Science, Engineering Technology or Business Engineering
- Willing to learn quickly about fluid dynamics and race car aerodynamics
- Hands on approach
- Basic knowledge of composite materials
- Basic knowledge of CAD

## Returns

- Insight into different software programs (StarCCM+ , NX, etc)
- Experience in an unique field of expertise
- Gain exposure to cutting-edge technologies and industry-leading organizations
- Possibility to network and cooperate with international stakeholders
- A summer packed with international racing competitions!