



# Aerodynamics Engineer

## Green Innovation meets performance

### Our Project

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Formula Electric Belgium is a team of engineering students who build a **Formula-Student racecar** to compete in international competitions. We design and build a brand-new car every year and compete with other teams in multiple worldwide competitions during the summer months. Formula Student is by far the biggest **engineering competition** in the world and continues to grow. From next year on, we will be competing in both the **electrical** and **driverless** competition. You can join the project as a volunteer. This allows you to contribute to the next race car whilst keeping a flexible schedule.

### Tasks

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As aerodynamics engineer, you will be responsible for the development of the **aerodynamic package** of the car. This package includes the front wing, rear wing, undertray, diffuser, sidepods and aerodynamic add-ons. The goal is to optimise the aerodynamic package by performing design iterations using **CFD-simulations**.

The challenge is to produce sufficient amount of downforce for fast cornering while also considering the drag penalty.

Furthermore you will have to choose the best production methods for the aerodynamic package and manufacture the parts out of **carbon fiber**.

### Profile

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- Basic knowledge about aerodynamics
- Experience or interest in CFD-simulations and iterative optimisation
- Interest in composite materials

### Returns

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- A unique engineering experience
- Developing your hard- and soft-skills in a company-like environment
- Work with the newest technologies and innovative companies
- Work in a team with a network of well over 120 partners
- A summer season packed with competitions all over Europe
- An experience of a life-time!

### Up for the challenge?

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Submit your **resume** and **motivation letter** (one page) to  
<https://formulaelectric.be/vacancies-theses/>