



Monocoque simulation

Green Innovation meets performance

Our Project

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

The design of the monocoque does not stop with coming up with a shape for it. Another important aspect of the design is the **selection of the right materials**. Since we use carbon fiber, designing the way we compose the **carbon fiber plies** is a major component of the design task. This is where **simulations** come into play. They allow us to **evaluate and optimize** our **layup** before we have even produced a single part.

As production engineer you will be responsible for the simulations surrounding the monocoque and in this way have a significant impact on the weight and stiffness of the resulting car.

Profile

- Experience with CAD and simulation software
- Interest in composites and material selection

Returns

- 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?



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