



Monocoque design

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

As Monocoque design engineer you are responsible for **designing and producing the main body of the car**. During the design, you have to make sure that all components of the car fit inside/can be attached on the monocoque and that the monocoque is rule compliant. When the design phase ends, you become responsible for the **production of the moulds**.

Next to designing, you will have **to select and order the right materials** for all composite structures in the car. You ensure the driver safety by designing an **impact attenuator** and **roll hoops**.

In the second semester, you will work closely with your colleagues of the department composites to **produce** the monocoque and all other parts made out of composites (aerodynamic devices)..

Profile

- Experience with CAD 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/>