



Composites

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 during one or two years by applying for the **'Postgraduate in Innovation and Entrepreneurship in Engineering'**.

Tasks

As a composite engineer, you will be responsible for everything that is made of composite. This ranges from the monocoque to the ergonomics of the driver. You will work on optimizing the ply's, simulating the monocoque with FEM simulations and checking the lay-up with Fibresim. But also determining the position of the driver, investigating ways to make certain things adjustable and different designs to optimize the comfort of the driver are part of the job. Another aspect is that you will get to know biological fibers and do research on how we can implement them in the car. By implementing this biological fiber, it is possible to eliminate harmful substances from our process and to have an ecological car.

After the design of the components, the biggest part of the year begins, namely the production. Here you will make all the components yourself, you will laminate the complete monocoque, help laminate each aero component and make other components that need to be laminated.

Up for the challenge?

Profile

- Basic knowledge on composites
- Basic knowledge on composites production
- Basic knowledge on composites simulations is recommended, but not required
- Willing to learn quickly about different aspects of composites

Returns

- A field of expertise that is quite unique to this project
- Hands on experience in a competitive environment
- Taking part in a very unique project
- Insight into different software programs (NX, Fibresim, Altair, etc.)
- Hands on experience with production of composite materials
- Boosting your soft skills (Public speaking, maintaining professional relationships, ...)
- Business relations with composites related companies



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