



Powertrain Drivetrain engineer

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 drivetrain is one of the most complex aspect of the car and extends from the electrical engine to the wheel. Each year the design of those parts are a major challenge and to tackle it, students are needed who are willing to delve into this complexity.

You are mainly engaged in designing and optimizing an **electric motor**, your own **gearbox** and **structural components**, such as a self-designed rim heart to hold the whole together and connect the motor to the wheel.

A great interest and understanding in the subjects "Machine Parts" and "Production Technology" is a great asset to this position.

Profile

- Knowledge about bearings, gears and shafts and their tolerances
- Knowledge about the production processes of gears and milling
- Basic knowledge about electrical machines
- Interest in new CAD/FEM-software (Siemens NX)

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/>