

Powertrain

In-wheel Engineer



Green innovation meets performance

Our Project

Formula Electric Belgium is a student-based race team that pushes green innovation to performance. We design and build our own electric race car each year to participate in international Formula Student competitions. We are looking for pioneers to challenge the status quo and bring our top-notch electric race car to the next level. As a postgraduate student, you will research, design, and test your systems together with a group of highly motivated students. You will innovate together with your team members and numerous companies to develop our next generation formula student race car.

Function

As a Powertrain Engineer, you will be responsible for the design and manufacturing of the **drivetrain components** that convert electrical energy into mechanical energy at the wheels.

The scope of this specific function encompasses all components that link the wheels to the engines and chassis, such as completing the design of a **gearbox** requiring optimization of gears and designing new uprights through utilization of force analysis. Additionally, the individual occupying this role will be accountable for the design, manufacturing and validation of the remaining mechanical elements.

Furthermore, there will be involvement with composite materials during the production process of **carbon rims**. A great interest and understanding in the subjects "Machine Parts" and "Production Technology" is a great asset to this position.

Up for the challenge?

You think you're the right person for this job? Don't hesitate to submit your resume and cover letter at our website:

<https://formulaelectric.be/join-us-postgraduate/>

Profile

- Bachelor/Master Engineering Science, Engineering Technology or Business Engineering
- Knowledge about bearings, gears, shafts and their tolerances
- Knowledge about the production processes of gearbox components and milling
- Experience with CAD/FEM-software

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!