

Powertrain

Inwheel 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 an Inwheel Engineer, you are responsible for the **design** and **manufacturing** of the **drivetrain** components that convert electrical energy into mechanical power at the wheels. Your scope includes all mechanical parts connecting the wheels to the motors and chassis, such as gearbox optimization, gear design, and the development of new uprights, carriers and hubs using FEM analysis.

You will also handle the design, manufacturing, and validation of the remaining mechanical drivetrain elements and contribute to the production of carbon fiber rims, gaining hands-on experience with composite materials.

A strong interest in **Machine Elements** and **Production Technology**, along with mechanical design and FEM skills, is a key asset for this role.

Profile

- Bachelor/Master Engineering Science, Engineering Technology or equivalent
- 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!

Up for the challenge?



Submit your **resume** and **motivation letter** (one page) to
recruitment@formulaelectric.be