

# INWHEEL ENGINEER

## POWERTRAIN

### 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 the international Formula Student competitions. This year, 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, test your systems together with a group of highly motivated, ambitious students. You will work together with your team members and numerous companies to develop new innovations.

#### 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 Powertrain Department is responsible for the entirety of these components.

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.

#### Profile

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

#### Returns

- Hands-on experience in a competitive environment
- Gain exposure to cutting-edge technologies and industry-leading organizations
- Possibility to network and cooperate with (motorsport related) stakeholders
- A summer packed with international racing competitions!

#### Up for the challenge?



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