

# Powertrain Inwheel Engineer

## Green Innovation meets performance

### Our Project

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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. Since the 2024 season, FEB works on a combined manual (with driver) and **driverless** car. You can join the project during one or two years by applying for the '**Postgraduate Tech Innovations in Ventures and Teams**'.

### Tasks

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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.

### Profile

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- 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

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- 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?

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