

Chassis Design 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 Chassis Engineer, you will be responsible for designing and integrating the monocoque and associated components into the car's overall assembly. Using Siemens NX 3D CAD software, you will create a lightweight, reliable design that seamlessly incorporates all chassis-related parts. Your work will ensure proper fitment, structural integrity, and compliance with competition rules.

As the De Engineer, you will **collaborate closely with the Production Engineer**, who ensures that your designs comply with competition rules and manufacturing requirements. This collaboration is critical to align the design and production processes, resolving potential issues early to streamline the manufacturing phase. Additionally, you will work in coordination with other departments, as your design must account for and accommodate components from various systems. These include:

- **Powertrain:** Ensuring motor mounts, cooling systems, and other powertrain-related elements are properly implemented without collisions.
- **Suspension:** Providing mounting points for hardpoints, ensuring rigidity and compliance with dynamic load requirements.
- **Ergonomics and Driver Controls:** Designing interfaces for components such as the pedalbox, steering system, seat, and driver controls.
- **Electrical and Aerodynamics:** Ensuring sufficient space, mounting locations, and proper integration for electrical wiring, sensors, and aerodynamic elements like the floor and wings.

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 in Engineering Science or related field
- Proficiency in Siemens NX and CAD design
- Strong problem-solving skills and focus on manufacturability
- Problem-solving mindset and attention to the manufacturability of the components

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!