

Vehicle Dynamics

Suspension and Mechanical 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 part of the Vehicle Dynamics department you are responsible for the physical implementation of the suspension system, more specifically the implementation of the **semi-active suspension** system and **kinetic anti-roll**. These include the development of the **valveblocks** for the **semi-active valves**, the shock absorbers, rockers and the **connections** between these components.

You have to make **design choices** with regards to constraints from the competition rules and KPIs from the other engineers in the team. Furthermore, you will closely work alongside the vehicle dynamics controls engineer to bring the **semi-active suspension** system to life.

In the second semester, you will **assemble** the newly developed parts and develop testing methods that allow you to **test** the newly-made race car.

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 Engineering
- Basic knowledge about vehicle dynamics
- Experience with CAD-software and FEM-simulations
- Interest in advanced suspension systems (semi-active, active, kinetic, ...)

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!