

# Vehicle Dynamics

## Steering 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 **design and physical implementation** of the **steering system**.

This means that you are responsible for all the components between the steering wheel and uprights, such as the connection to the quick release, steering shaft, universal joint, steering rack, and the various brackets.

You will be responsible for the calculations regarding **steering torque and forces**, and simulating **stresses** in the various components to ensure that the steering system has **low compliance** and can withstand the forces applied to it, while being as **lightweight** as possible.

In this position you are also in charge of **mounting** the steering components to the vehicle during the **production** phase.

## 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
- Hands-on experience with tools and machining

## 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!