

Green innovation meets performance

Our Project

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. From next year on, we will be competing in both the **electrical** and **driverless** competition. You can join the project as a volunteer. This allows you to contribute to the next race car whilst keeping a flexible schedule.

Tasks

In order to get the maximum amount of grip from the tyres, the suspension kinematics must be optimal. All our cars have double wishbone suspension, but the kinematics are slightly different for all of them. In order to better understand the kinematics of previous cars, they can be modelled in **OptimumKinematics**.

In this case, the suspension of previous FEB cars will be modelled in OptimumKinematics. The kinematics will be simulated to find out which of our previous cars had the best suspension. This will aid the team in the future when designing new suspension hardpoints.

Profile

- Basic knowledge about vehicle dynamics
- Basic knowledge about double wishbone
- suspensionExperience with multibody software (OptimumKinematics, Simcenter 3D or other)

Returns

- A unique engineering experience
- Applying your engineering skills on a real case
- Work in a team of young and motivated engineering students
- Learn about vehicle dynamics and race car design

Up for the challenge?



Want to perform a similar case-study within our team? Submit your **resume** and **motivation letter** (one page) to volunteers@formulaelectric.be