

## Body

# Vehicle Dynamics Engineer



### OUR STORY

**UGent Racing** is a team of more than **80** ambitious, motivated and talented **students** who build an **electric** and **autonomous driving race car**. The team consists both of engineering students and business students. UGent Racing aims to participate in the **Formula-Student Competitions** which are organized during the summer months across different European countries. Moreover, UGent Racing intends to have a **positive impact on society** by contributing to the mobility of tomorrow and forging higher education of the future.

### YOUR RESPONSIBILITIES

As a suspension & vehicle dynamics engineer you are a part of the **body subteam**. Here you will **design and simulate a suspension system** for our next generation autonomous racecar. This starts by calculating and deciding the characteristic angles of the wheels (caster, camber, king pin indication...) to **optimize the handling** of the racecar.

A push rod suspension system can be designed whilst considering different constraints such as suspension travel, rim size and integration of the suspension system into the chassis. For this you will need to make a CAD-model of the suspension system, taking the production and assembly process into account. Lastly, you will **build, test and optimize** the system.

### YOUR PROFILE

- Highly motivated
- Committed
- Open-minded
- Communicative
- CAD-skills
- Simulation-skills for dynamic vehicle models

### OUR OFFER

- Be part of a young, ambitious team of engineers and business students
- Apply your theoretical knowledge when developing useful applications
- Get the chance to participate in the international Formula Student Competitions
- Get valuable CAD experience using Siemens NX
- Get insights in the design and workings of the suspension system of a race car

### INTERESTED?

Contact us through [recruitment@ugentracing.be](mailto:recruitment@ugentracing.be) if any questions would pop up.