

## High Voltage

## High voltage 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 high voltage engineer you will be part of the **high voltage subteam** of the Electrical team. This team is responsible for all electrical components working on high voltage (**up to 600V**) in the UGent Racing car. As a member of this team you will be responsible for using **vehicle simulations** to select suitable **motors, controllers and cooling system**. You will make a design of the complete high voltage system and choose the correct components such as **cables, sensors, and safety devices**. You will **work closely together** with your teammates and other (sub)teams within the Electrical team to make sure that the motor controllers are suitable for the chosen accumulator voltages. You will work closely together with the Mechanical team to fit everything in the car.

### YOUR PROFILE

- Highly motivated
- Committed
- Open-minded
- Communicative
- Knowledge about inverters, motors, and motor controllers
- A mechanical background can be advantageous

### 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
- Be able to design and build a high voltage system for an electric race car

### INTERESTED?

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