

High Voltage

Accumulator 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 an accumulator engineer you will be part of the **accumulator subteam** of the Electrical team. This team is responsible for the design and build of the accumulator (battery) of the UGent Racing car. You will be responsible for performing **vehicle simulations** to determine the required energy to complete the endurance event during the Formula Student competitions. You will also have to design a **cooling system** to manage the heat created during driving and charging. Different **battery chemistries** have to be compared and a **suitable cell** has to be chosen. You will determine the configuration of the cells to obtain the correct **voltages and currents**. You will **work closely together** with your teammates to make sure that the accumulator fits in the container and that the accumulator management system can ensure a safe operation. You will work together with the high voltage subteam to determine the correct voltages.

YOUR PROFILE

- Highly motivated
- Committed
- Open-minded
- Communicative
- Knowledge of electricity
- Interest in batteries
- Able to work safely on high voltage systems

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 battery by yourself

INTERESTED?

Contact us through recruitment@ugentracing.be if any questions would pop up.