



UGent Racing 2022 - 2023

Electrical

AMS Engineer



OUR STORY

UGent Racing is a team of more than **70** ambitious, motivated and talented **students** who build an **electric** and **autonomous driving racecar**. 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 Management System (AMS) 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. Since the accumulator is working with **high voltages** (max. 600V) and **high powers** (max. 80 kW), the **Lithium cells need to be monitored and managed** at all times to prevent damage, fires or explosions. As an AMS engineer you will be responsible for selecting the correct sensors and measuring equipment. You will design your own electric circuits and PCBs to process all data, to prevent a failure and to communicate with the rest of the electrical system. You will **work closely together** with your teammates and with other (sub)teams such as high- and low voltage.

YOUR PROFILE

- Highly motivated
- Committed
- Open-minded
- Communicative
- Knowledge about electronics
- Eager to learn PCB-design
- Interest in batteries

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
- Gain knowledge about high voltage batteries, components and sensors

INTERESTED?

Fill in [this form](#) together with your resume and motivational letter and we'll reach out to you soon. Contact us through recruitment@ugentracing.be if any questions would pop up.