



# UGent Racing 2024 - 2025

## Drivetrain

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### Wheelhubs & Brakes Engineer



#### OUR STORY

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**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

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As a wheelhub engineer, you are part of the **vehicle dynamics subteam**. You are responsible for the **design and production of the wheel side of the powertrain** of the next generation autonomous race car. The wheelhub includes every rotating component outboard of the chassis and the uprights. The components are highly and dynamically loaded and critical to performance. Most of our parts are custom designed. An important part of the design is to optimize the weight and inertia of these parts using **CAD models and simulations**. You are also responsible for the **brakes**, a critical component for performance and driver safety. You will need to work together closely within your own team but also the transmission and suspension team.

#### YOUR PROFILE

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- Highly motivated
- Committed
- Open-minded
- Communicative
- Experience in CAD design
- Experience in simulations

#### OUR OFFER

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- 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

#### INTERESTED?

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