

# AERODYNAMICS

## AGORIA SOLAR TEAM



### THE PROJECT

The goal of the project is to build the tenth Belgian solar car. With this car, you will participate in the world championship for solar cars in Australia, the Bridgestone World Solar Challenge 2023. You will go through the whole process of designing, producing, testing and racing, together with a group of ambitious and motivated students. With numerous companies, you will develop new innovations to build the most efficient solar car. In the end, you and your team will compete against universities from all over the world to compete for the first place. This project will help you become a state-of-the-art engineer!

### THE FUNCTION

As an *Aerodynamic Engineer*, you will design the outer shape of the new solar car. The first six months of the project will be extremely intensive, as the shape of the car is the starting point for the other departments. You will become an expert in the latest CAD, meshing and simulation software, working closely together with other departments to push technical limits and gain deep insights into the aerodynamics of a car. Improving the internal aerodynamics of the solar car is also part of your job. Next, the final design will be built during the production phase, where you will be responsible for the finishing quality. A creative mindset and an eye for detail are extremely important for this position. Further on in the project, you will be able to verify your results in a wind tunnel and during the many test days.

### YOUR PROFILE

- A motivated team player with strong communication skills
- A creative, out-of-the-box mindset with an eye for detail
- Motivated technical drafter with broad analytical thinking ability
- Bachelor's or master's degree in engineering technology or (bio-)engineering sciences
- Ready to put a lot of time and effort into this project!
- A practical attitude and knowledge of CFD are a bonus

### OUR OFFER

- A project full of experiences you don't get in your normal studies
- Having a decisive hand in the design of the outer shape of the new solar car
- Experiencing a real engineering project and its different phases
- Being in contact and cooperating with the largest companies in the industry
- A group of friends and an international racing adventure to remember
- The experience of a lifetime and so much more!