

MECHANICAL SYSTEMS

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 a mechanical engineer you will be responsible for the design of the mechanical systems of the tenth Belgian solar car. The steering system, suspension, motor casing and brakes are just a few examples of this. First of all you will learn to work with simulation and drawing software and you will get hands-on experience with the previous solar cars. In the design phase you will design and optimize all mechanical systems with an eye for the weight, strength and mounting of each individual part. You will also look for technical partners to eventually produce the parts. Once all the pieces are finished and the production period is over, you will install all the parts in the car. Finally, you will extensively test the car to validate all your designs and get the car tuned in time for the strategic test period.

YOUR PROFILE

- A healthy interest in vehicle dynamics and vehicle mechanics
- 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!

OUR OFFER

- A project full of experiences you don't get in your normal studies
- 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!