

DIGITAL TWIN

INNOPTUS SOLAR TEAM



THE PROJECT

The goal of the project is to build the eleventh Belgian solar car. With this car, you will participate in the world championship for solar cars in Australia, the Bridgestone World Solar Challenge 2025. 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

You will be part of the strategy department together with the strategist. You are responsible for the acquiring knowledge about the car based on models, simulations and tests. You will guide and support the other team members during the design phase of the car and provide crucial models and parameters to ensure optimal performance determine race strategy. You will aim to model all elements of the car in order to determine the behavior of the vehicle to simulate and explain. Examples of projects include the model for measuring the incoming power of the solar calculate and optimize the panel, analyze data from previous races (such as the fin), find a solution to deal with the uncertainties of weather forecasts and weather sensors. You will be able to experiment with your models determine and validate in climate chambers and on test tracks!

YOUR PROFILE

- A motivated team player with strong communication skills
- Broad analytical thinking
- A creative, out-of-the-box mindset
- High degree of independence and professionalism
- Bachelor's or master's degree in engineering technology or (bio-)engineering sciences
- Experience with programming
- 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
- Main role in making strategic choices during the race
- 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!