



innoptus SOLAR TEAM **STRUCTURAL DESIGN**

INNOPTUS SOLAR TEAM

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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

As a Structural Engineer you are part of the Composites group. The Composite Engineers ensure that the aerodynamic shape of the car has a strong and rigid structure. Together with Aerodynamics and Mechanical Systems, the mechanical design of the solar car is determined in a period of continuous iterations. While Aerodynamics largely determine the exterior shape of the car, Composites and Mechanical Systems determine what the inside of the car will look like. The structure must of course be able to support the various dynamic forces acting on a vehicle and must comply with the safety standards imposed by the organization. In addition, the parts must of course be as light as possible. Both CAD and composite simulation software will no longer hold any secrets for you. While simulating, you also prepare for the production period. You do this, among other things, by working on various practical test projects to renew and/or improve the production process.

During the production period you will build the various composite parts of the car as a team. During this intensive period you will see your designs come to life and have to solve practical problems to have the various parts ready in time for assembly and painting. During the testing period, the structure will then be practically tested against the various dynamic loads!

YOUR PROFILE

- Practical attitude and solution-oriented mentality
- A motivated team player with strong communication skills
- Broad analytical thinking with an eye for detail and finishing
- A creative, out-of-the-box mindset
- High degree of independence
- Bachelor/Master in engineering technology or bio-engineering sciences
- Ready to put some time and effort into this project

OUR OFFER

- The opportunity to work with state-of-the-art techniques and materials
- Have a decisive hand in the internal structure of the new solar car
- Discovering a real engineering project and its different phases
- Connect and collaborate with the largest companies in the industry
- A close-knit group and an international racing adventure you will never forget
- The experience of a lifetime and so much more!