

HIGH VOLTAGE

INNOPTUS SOLAR TEAM



THE PROJECT

We contribute to the future of mobility. Innovation has always been our cornerstone to create the best solar car in the world. This year, we are looking for pioneers to challenge the status quo and bring our top-notch solar car to the next level. 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 further improve 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 in an international race in 2026. This project will help you become a state-of-the-art engineer!

THE FUNCTION

At the Innoptus Solar Team, you get the unique opportunity as a high-voltage engineer to be an essential link in the development of one of the most advanced solar cars in the world. You take a leading role in the further development of the electric motor, the battery pack or the solar panel. In doing so, you always strive for maximum efficiency and reliability. You work closely with colleagues and partner companies to seamlessly integrate your design into the car. In addition, you research and apply the latest technologies to stay competitive in international races.

In this challenge, you will dig deeper into three crucial electrical components that characterise our solar car.

- The electric motor: Simulate, design and improve the motor configuration to deliver optimal performance.
- The battery pack: Design a battery pack with maximum energy density, reliability and safety.
- The solar panel: You will integrate the latest technologies to maximise power in.

In addition:

- You will analyse and implement the latest technologies on the market to find the most efficient solutions every time.
- You oversee the entire electrical architecture of the vehicle and ensure reliability and safety.
- Work closely with colleagues within the energy department to achieve seamless integration of all systems in the car.
- Play a key role in preparing and executing the international competition in which we participate.

These positions are distributed within the energy department and will be depending on the project selected by the team. Be sure to indicate in your motivation letter which one appeals to you most and why.

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YOUR PROFILE

- An extensive interest in both electronics and electromechanics
- A motivated team player with strong communication skills
- A creative, out-of-the-box mindset
- High degree of independence and professionalism
- Bachelor or master in engineering technology, or (bio) engineering sciences
- Enthusiast to put a lot of passion, 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
- An extensive network and collaboration with leading companies in the industry
- A group of friends and an international racing adventure to remember
- The experience of a lifetime and so much more!