

MECHANICAL ENGINEER

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 have to go through the process of researching, designing, prototyping and testing your systems together with a group of highly motivated, ambitious students. You will work together with your team members and numerous companies to develop new innovations.

After completing the improvements to the solar car, these will be put to the test in an international competition against other top teams from around the world. Past competitions have included one in Chile and one in South Africa. Improving a world record has also been achieved by one of the previous teams.

THE FUNCTION

During your first month, you will learn to work with simulation and CAD software, in parallel to hands-on experience with the previous solar cars. These insights will help you to design the mechanical innovations for the next race. After the CAD design, you will analyse the internal forces and stresses through FEM simulations. The goal is to create a light, smart and reliable design, ready for manufacturing! What innovations you will work on, is up to you and the team, but opportunities are not scarce: adaptive suspension to improve stability, develop the a new tilting system to capture more energy from the sun more quickly during charging periods, replacing parts by lightweight 3D - printed parts, improving the mechanical design of the electromotor...

YOUR PROFILE

- * Motivated team player with strong communication skills
- * A professional, entrepreneurial attitude
- * Huge interest in vehicle dynamics
- * Soft skills to initiate collaboration with companies
- * You like both design, and assembly work
- * A creative, out-of-the-box mindset
- * A bachelor or master degree in Engineering Science or Engineering Technology
- * 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!