



Open position – *Electrical Engineering*

Battery

YOUR DEPARTMENT

The electrical engineering department brings the vehicle to life. Its main area of responsibility includes the design, manufacture and integration of the electrical systems required to operate the vehicle. This includes the implementation of efficient solar cells, the integration of batteries, the powertrain and the control electronics. Reliability and energy efficiency have the highest priority to ensure smooth running of the races.

YOUR TASK

The central component is the high-voltage battery, which we use to store solar energy. It has to meet many requirements, such as high reliability and safety, large capacity, low weight and integration, low weight and integration into the and integration into the vehicle concept. Your tasks will include:

- Research, selection and measurement of the battery cell
- Electrical concept and circuit diagram
- Board development and electrical circuit diagram
- Battery manufacturing
- Electrical construction of battery
- Characterisation of the built battery
- Close cooperation with the BMS

WHAT YOU BRING TO THE TEAM

- Enthusiasm for the project!
- Student in electrical engineering or a similar field of study
- Fun with problem solving and breaking down complex problems
- First knowledge and experience in the field of battery cells, circuit board development or battery design desirable.
- Dutiful and responsible way of working

WHAT WE OFFER YOU

- Development of one of the most efficient solar cars in the world
- Opportunity to apply your theoretical knowledge in practice and implement your own ideas in an exciting environment
- Use of Vector CANoe, Altium Design, AutoCAD Electrical, Siemens NX within the scope of a demanding project
- Experience with circuit board design, high-voltage systems and electromobility
- Contact to potential employers and the development of a professional network (in industry and research)
- THE experience of your studies!

APPLICATION

Please apply exclusively via the application form on our website:

www.sonnenwagen.org/join

