



Open position– *Electrical Engineering*

Motor

YOUR DEPARTMENT

The electrical engineering department brings the vehicle to life. Its main area of responsibility includes the design, manufacturing 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 during the races.

YOUR TASK

In the context of the project, we have developed a highly efficient axial flux motor. Your task will be to improve the efficiency of this electric motor. To achieve this, you will measure the motor on a specially designed test bench and characterize the losses. Based on these results, you can develop and test ideas to minimize the loss of power in the motor. You will be working intensively with MATLAB in order to successfully complete these tasks.

WHAT YOU BRING TO THE TEAM

- Enthusiasm for the project!
- Student in the field of mechanical engineering, mechatronics, or a related field of study
- Highly committed and a motivated approach to work
- Initial experiences and knowledge of CAD and MATLAB as well as electric machines is advantageous.

WHAT WE OFFER YOU

- Development of one of the world's most efficient solar vehicles.
- Opportunity to apply your theoretical knowledge in practice and implement your own ideas in an exciting environment
- Use of CAD and MATLAB in the context of a challenging project
- Interaction with potential employers and the opportunity to build a network in both industry and research
- THE experience of your studies!

APPLICATION

Please apply exclusively via the application on our website

www.sonnenwagen.org/join



Address: Eilfschornsteinstraße 12, 52062 Aachen
Email: kontakt@sonnenwagen.org
Web: <http://www.sonnenwagen.org>



Contact person:
Lina Schwing
l.schwing@sonnenwagen.org
Mobil: +49 1781347560