



Open position – Structural Components

Construction

YOUR DEPARTMENT

The structural components department is responsible for the design, development and manufacturing of the solar car's load-bearing structural elements and bodywork, which not only ensure driver safety but also optimise the vehicle's performance. We select composite materials to minimise vehicle weight and ensure structural integrity, mainly through fibre composites. In addition, we take responsibility for the manufacturing of the FRP components, which is carried out entirely in-house by our team. In the structural department of Sonnenwagen Aachen, we offer you the opportunity to design your own solar racing car from scratch.

YOUR TASK

Your job will be to develop the load-bearing structure and/or bodywork of the next Sonnenwagen by designing innovative concepts and modelling them in CAD software. You will work closely with other team members to ensure that the requirements of other departments such as aerodynamics, mechanics and electrical engineering are also incorporated into our components. For example, the solar cells need to be embedded in the car's lids. To ensure that the developed components can be manufactured, you will also design moulding tools and take responsibility for your components during manufacturing. Classic components of a solar car are, for example, the chassis, solar lid, bottom shell and wheel covers.

WHAT YOU BRING TO THE TEAM

- Student in mechanical engineering, business engineering, material engineering or a comparable field of study
- High level of commitment and motivation
- Initial experience and knowledge with FRP-Manufacturing is advantageous
- Enjoy working in a highly motivated, creative team

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 Siemens NX and Siemens Simcenter within the scope of a demanding project
- 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



Address: Eilfschornsteinstraße 12, 52062 Aachen
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