



Open position – Aerodynamics

Simulation

YOUR DEPARTMENT

The Aerodynamics department designs the shape of the new vehicle. There are few limits to creativity. We come first the solar cars design process because our adjusting factor, the vehicle's air resistance, is the biggest factor in energy loss. Nevertheless, we have to work closely with the other departments to be able to build a super aerodynamic and technically feasible solar car.

YOUR TASK

Your first task will be to familiarise yourself with the topic of flow simulations and our simulation environment in StarCCM+ with the help of our alumni.

After that, your task will be to set up and maintain various aerodynamic simulations in StarCCM+ locally and on the RWTH computing cluster. Furthermore, you will be responsible for the administration and organisation of our cluster computing project.

You will also get involved in our automated design optimisation and expand it.

At the end of the season, you will prepare the tests in the wind tunnel in the department and be actively involved in the production of the new Sonnenwagen 5.

WHAT YOU BRING TO THE TEAM

- Enthusiasm for the project!
- Ability to work independently and in a team
- High level of commitment and motivation
- Studies in the engineering/scientific field (e.g. mechanical engineering, physics, ...)
- General interest in simulations and the topic of CFD
- Initial experience and knowledge with CFD as well as with general fluid mechanics is advantageous

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 CFD 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



Apply now!