



Open position – *Driving Strategy*

Telemetry

YOUR DEPARTMENT

Even the best solar car in the world is not enough to win the world championship. We in the driving strategy department are concerned with getting the maximum performance out of our solar car. The goal is to drive as efficiently as possible, using wind, weather and gradients to our advantage to get to the finish line as quickly as possible. During the race we are responsible for all tactical decisions and hold the reins for a flawless race. In order to be prepared for all eventualities, we are constantly developing various tools in the driving strategy. These include, for example, the data link between the sun car and the support vehicle, a digital vehicle model, visualisation of weather and vehicle data as well as the optimisation of the speed curve.

YOUR TASK

You are responsible for collecting critical data from our solar race car. You will enable the optimisation of our performance and ensure safe and efficient operation. First-class dashboards are essential and will make other teams jealous. You'll learn all about our telemetry technology and protocol. Working closely with your electrical engineering team colleague will ensure a stable connection. Testing, documentation and reproducible environments are your keys to success.

WHAT YOU BRING TO THE TEAM

- High availability and motivation
- Student in computer science or a comparable field of study
- Desire to program in Rust, but not afraid to touch some Python or C
- Experience writing documentation and Unit/Integration Tests is desirable
- Having dabbled in reproducible builds/environments and CI would be nice

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 Rust, Git, Docker, Nix, Grafana, Jaeger and Linux 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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