

Join Space Team Aachen

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Propulsion Simulations Engineer

Space Team Aachen Hybrid Rocket - STAHR

About Space Team Aachen

The Space Team Aachen is a space science association founded by students of the Aachen universities. Our team is formed of ambitious students from a variety of fields who share the fascination for space exploration. Our team designs, builds and flies experimental rockets and scientific experiments. We set high, challenging goals in order to reach our best performance. We believe in equality and stand for the exchange of our aggregated knowledge.

Your responsibilities

You will be working on Aachen's first hybrid rocket aiming to reach 10 km in altitude as part of the DLR STERN program. As part of the propulsion team, you will be in charge of both analytical and numerical engine simulations. Your tasks include:

- CFD simulations of the engine injection system
- Build upon a python tool to simulate the entire rocket propulsion system
- Analytical and numerical simulations of the combustion process
- Analytical and numerical simulations of nitrous oxide, our oxidizer, in the tank and feed system
- Conducting performance calculations

Project begin: immediately

Our requirements

- Highly structured and organized way of working
- Fascination for rocket science
- High motivation, reliability & availability
- Understanding of thermodynamical processes
- Knowledge in CFD is a plus
- Knowledge of English and German

What do we offer

- Be a part of the development of Aachen first ever rocket engines
- Work on hands-on space project
- Take part in engine hot fire test campaigns
- Have autonomy and responsibility
- Contact with experts in Aachen, DLR and industry
- See your project be built and launched in the near future

Your contact

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