Simulation Engineer

Project TRACE – Simulations Team

About Space Team Aachen & TRACE

Space Team Aachen is the association for aerospace enthusiastic students from FH and RWTH Aachen. Together we bring space technology to Aachen. For our next project, Space Team Aachen aims to build a free-flight experiment as part of a REXUS mission. REXUS stands for Rocket Experiment for University students and is German-Swedish student programme which allows students to fly their experiment on a rocket or balloon. The goal is to test a new type of transpiration heat shield during re-entry. For this purpose, we cooperate with institutes of the RWTH and the DLR. For more visit our website and go to project TRACE.

Your responsibilities

You will be working for the simulations team of the TRACE Project, which aims to test and validate transpiration cooling on a re-entry body. Your responsibility will be to simulate and predict the trajectory of the reentry vehicle, together with other members of the simulations team. You will work on and expand upon the existing trajectory code of the team. Assisting CFD simulations may also become part of your job in the future. We are looking for a person who is reliable, and a communicative team-member. Prior knowledge in Python is necessary, further programming experience is welcome but not mandatory.
Start: immediate

Our requirements

- Student at RWTH or FH Aachen
- Interest in flight dynamics and trajectory calculations
- Experience in Python is a must
- Experience in Star CCM is a plus
- High motivation
- Ability to take responsibility and work independent
- Fluent in English and German is a plus

What do we offer

- Be part of a highly-motivated REXUS team
- See your work actually fly into space!
- Become part of a fast-growing student association
- Apply your theoretical knowledge in practice
- Chance of promotion to board member

Interested?

Send you CV and motivational letter to
application@sta.rwth-aachen.de

DLR Deutsches Zentrum für Luft- und Raumfahrt
Rymdstyrelsen Swedish National Space Agency
esa
SSC
ZARM

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