

Description

Our student initiative is based at ETH Zürich (Hönggerberg) and inspires students across Switzerland in hands-on space engineering challenges through collaboration with academia and industry.

ARIS goes into the 3rd round: Following project HEIDI, ARIS participates at the Spaceport America Cup 2020 in New Mexico and develops its own Rocket Engine. The objective: to win the competition in the next 5 years with a highly sophisticated sounding rocket flying to 10km and to fly something in orbit (rocket, satellite, rover, ...) by 2029. A small think tank group, called Strategic Development Team, will lay the foundations for these projects and conduct the concept studies.

As **system engineer** your main responsibility is to conduct concept studies and evaluate the best concepts, derive future project requirements and supervise ongoing R & D projects in the form of bachelor/semester/master theses related to ARIS. Tasks include:

- Familiarize with the ARIS roadmap and refine it
- Conduct preliminary assessments and concept studies for critical systems
- Define project requirements and functional breakdowns for future projects
- Supervise projects and bachelor/semester/master theses related to ARIS
- Evaluate possible bottlenecks and critical aspects of future projects and derive mitigation actions
- Establish project and testing plans for future developments

Expectations

From each our team members we expect:

- We expect you to spend 2-3 days a week on the project and be able to join team meetings and workshops in Zurich
- Be proactive and able to take responsibility
- Fail, get up and learn from it
- Take the technical project responsibility
- Have a flair to communicate with an interdisciplinary team
- You don't have to be a specialist yet but you are willing to become one!

What do you get?

By participating in this unique challenge you will:

- Learn to understand complex systems as a whole
- Learn how to deal with critical decisions
- Become a leader in a technical role
- Take initiative outside of the class room and gain hands-on experience
- Establish and grow your network in industry and academia
- Be part of a friendly community, grow as a unit and build life-long friendships
- Kick start your career!

Start Date: September 2019, start with insight from HEIDI now

Duration: Minimum 1 semester

Working hours: 2-3 days/week

Any questions? Get in touch.

We look forward to hearing from you! Please submit a complete application, including CV. If you have any questions, please reach us on contact@aris-space.ch