

Control TEAM

mechanical / electrical / material engineers, physicists

Our student initiative is based at ETH Zürich and inspires students across Switzerland in hands-on space engineering challenges through collaboration with academia and industry. Our main project is the participation at the [Spaceport America Cup](#).

Following our [Project TELL](#), ARIS participates at the Spaceport America Cup 2019 with a rocket using a commercial solid motor flying to 10'000 ft. For this, an interdisciplinary core team of 20 students is formed that builds the rocket and participates at the competition in the US.

To guide our rocket during ascent, a **Guidance, Navigation and Control (GNC) system** is employed. The responsibility of the GNC team consists of implementing the control software, hardware and mechanisms in the rocket. This includes:

- Developing an independent GNC module, or improving on the existing control system and validate it in the whole system
- Designing, manufacturing and testing of the required sensor fusion and electronic hard- & software to exactly estimate the rocket's state.
- Testing the existing control algorithm, improve and revolutionize it
- Designing, manufacturing and testing of the mechanisms and actuators and ensure the mechanical integration into the rocket

We recruit an interdisciplinary core team that is motivated and capable to accomplish the tasks above. From our members, we expect the following attitude:

- Fail, get up and learn from it
- **You don't have to be a specialist** but you are willing to become one
- Join the team and grow as a unit
- Be proactive and able to take responsibility

We expect you to spend 2-3 days a week and be able to join team meetings and workshops in Zurich. Since we are a student association we don't hire any interns.

Send us a short description in what you're interested in and your CV (with picture) to recruiting@aris-space.ch

