Team

The EPFL Rocket Team (ERT) is a student association whose aim is to design and build rockets. The team, based at EPFL, is composed of about 200 students from diverse schools and universities in Switzerland.

Projects

The ERT is divided into three projects. Each year, the competition team designs and builds a large rocket to be launched in various international competitions. The ultimate goal? Win the Spaceport America Cup, the largest student competition of its kind, which takes place in June in the USA. The Space Race team is mainly composed of first-year bachelor students. They design and build smaller rockets that they will launch in order to obtain various certifications. Once trained, they have the opportunity to join the competition team. The research and development team, which is currently working on the Icarus project, is looking to design a rocket stabilisation system.

Ambitions

By next year, ERT aims to begin its transition to a supersonic rocket. To achieve this, we need the valuable contribution of our partners who, by providing material and financial support, choose to help bright and enterprising students to concretize their dreams.

GOAL 2021

In 2018, we received the Jim Fufaro Award for Technical Excellence. Since then, this recognition of our skills has encouraged us to aim ever higher. During its 3 participations in the Spaceport America Cup, ERT has always reached the top 10 of the ranking.

Despite the pandemic and the closure of the campus, the team continued to work on its rocket for future launches. Our members were also involved in the creation of EuRoC, the first European student rocket launch competition.

In 2021, ERT is perfecting its "Bella Lui" project with the aim of winning the Spaceport America Cup. In the Space Race, our students, divided into 3 teams, are competing to see which of the three groups will succeed in designing and launching the best rocket. The Icarus team is looking to develop a rocket stabilisation system with the aim of landing the rocket in the long term.
Missions

**Inspiration**

Since 2016, our competition team has distinguished itself on several occasions by reaching the top of the Spaceport America Cup rankings. These repeated successes open up the field of possibilities for many students who would like to enter the space industry.

**Education**

We encourage our students to develop their technical skills and put their theoretical knowledge into practice. They are involved in all stages of rocket production, from design to component construction and launch. They also learn about project management, teamwork, etc.

This year, half of our students - about 100 - joined the Space Race project, which shows the enthusiasm that exists for our training activities.

**Promotion**

We give our students all the tools they need for their future careers. By training talented engineers and by the visibility that our project gains each year, we contribute to the development of the space industry in Switzerland.

**Payload**

Our passenger is a scientific experiment: a 3U-CubeSat life sensor analyses the yeast nanocells throughout the flight to check that they remain alive.

**Recovery**

This allows us to return to land safely thanks to a system that deploys two parachutes.

**Avionics**

The brain of the rocket: this is where sensors measure the status of the rocket at all times. The avionics also serve as a link to our ground team and enable the engine to be ignited.

**Propulsion**

This is where the magic happens: the hybrid (liquid and solid) engine, designed by our team, provides 3000 N of thrust and allows our rocket to reach its peak.
BRONZE
500 - 3,000 CHF
without liquidity requirements

LOGO
On competition T-shirts

SOCIAL MEDIA
Mention in a collective post

SILVER
3,000 - 10,000 CHF
including 1000 CHF liquidity

LOGO
On competition T-shirts

SOCIAL MEDIA
Single post

GOLD
10,000 - 20,000 CHF
including 5000 CHF liquidity

LOGO
On competition T-shirts
On the rocket
On promotional material

SOCIAL MEDIA
Minimum 1 detailed post
Mention in all footers

PRESTIGE
+ 20,000 CHF
including 10,000 CHF liquidity

LOGO
Competition T-shirts (front and back)
Rocket
Promotional material

OTHERS
Possibility of personalized prestations

SOCIAL MEDIA
Minimum 1 series of posts
Mention in all footers