



Design, build and Launch of a Re-entry CubeSat



Function: Mechanical Engineer

Three open vacancies

Aether's project

The Aether Student CubeSat team brings together young Belgian engineers who are passionate about space technology. We are designing a CubeSat: a nano-satellite small enough to hold in your hand. In the past decade, the CubeSat standard has enabled countless new innovations in the space industry, and we are determined to uphold this tradition! Aether is focusing on the area of re-entry: creating the technology that will allow future CubeSats to safely re-enter the atmosphere and land on Earth after carrying out their experiments in orbit. This will allow scientists to analyze samples and get even more results out of their experiments, and all this with the affordability and accessibility that come with the CubeSat platform!

Function description

As mechanical engineer, you are responsible for the structural, thermal and dynamic design of the CubeSat. On one side you will ensure that the CubeSat can survive the launch and that it can handle the extreme conditions of re-entry. On the other side you will deal with any dynamic mechanism allowing movement of or on the satellite, like the deployable solar panels, the attitude determination and control system (ACDS) and the inflation system pneumatics. To achieve this you will use engineering tools like CAD and FEM to help with the design. Additionally you will structurally test and qualify the different parts and assemble the satellite.

What do you gain?

- 🔗 A unique engineering experience within an exciting space mission.
- 🔗 Create added value for your CV and the team.
- 🔗 Improve your (soft) skills on many aspects.
- 🔗 Be part of the team that will revolutionize the CubeSat platform.
- 🔗 Connection to a wide network of aerospace companies.

Profile

- 🔗 Minimum bachelor's degree.
- 🔗 Good knowledge of mechanics and heat transport.
- 🔗 Experience with CAD.
- 🔗 Basic knowledge of FEM.
- 🔗 Basic knowledge of programming.
- 🔗 Motivated team player.

BONUS

- 🔗 Knowledge of pneumatics.
- 🔗 Experience with FEM.



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Get in Touch

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