

# AETHER



## Design, Build and Launch of a Re-entry CubeSat

### MATERIAL ENGINEER

#### THE PROJECT

Aether is a team of motivated engineering students that have the ambitious goal of bringing the capabilities of sample return to the CubeSat platform. To succeed in this, we are first focussing on the creation of an inflatable heatshield. This is no easy feat, as the hypersonic re-entry creates a challenging environment for our satellite.

"A Cube-what?" you may ask. A CubeSat is a type of nanosatellite that comprised of small 10x10x10 cm cubes. This type of satellites is interesting as it is a 'cheap' platform to conduct research and testing in space.

We are currently looking for new people to join the team. You can join the team for one or two years in function of a Postgraduate program. The requirement: Having a bachelor's degree or higher.

#### FUNCTION

As Material Engineer you will be responsible for the selection and testing of the materials used in the CubeSat. One of the challenges that you will be facing is the selection of the heatshield materials, which need to be able to withstand the re-entry conditions while still being flexible enough to be folded.

You will be working in close collaboration with the structural and Aerodynamic & Thermal departments for the selection of the material.

#### PROFILE

- Motivated team player
- Good communication skills
- Material selection experience
- Thermodynamic experience
- Computer Aided Design experience

#### RETURNS

- Extensive experience with hypersonic aerodynamics
- Ability to connect with our partners in the space industry
- First-hand experience in working on a space mission



aetherspace.be

#### Interested? Contact us!



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