

Internship offer

Mechanical engineer



Context

The University Space Center of Montpellier (CSUM) is the French leader in the development and operation of nanosatellites developed by students. It has acquired in-depth competences in the field of design, manufacturing, testing and operation of nanosatellites and their subsystems, as well as in the area of space project management and product assurance in the framework of university space projects. The CSUM has an AIT (Assembly Integration and Test) Facility, a CDF (Concurrent Design Facility) and both UHF and S-band Ground Stations. The CSUM develops its own 1U to 12U CubeSat nanosatellite platforms with the support of the Van Allen Foundation and the French and European space agencies.

Internship description

Objectives: CSUM is developing and currently in phase B of a 12U platform designed to accommodate complex payloads from our partners. A team of interns will contribute to finalizing the preliminary design of the platform by capitalizing on the lessons learned from CSUM's numerous missions and will support the development of subsystems up to the implementation of a first functional model called FlatSat.

Mission

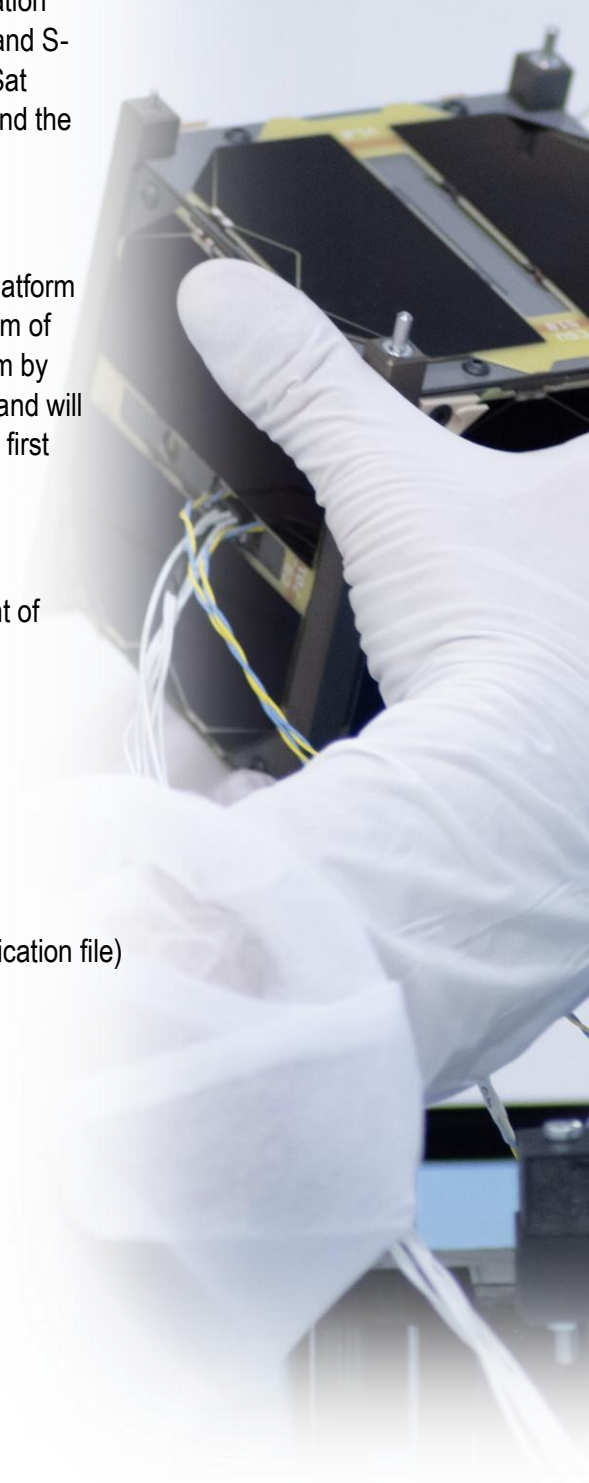
The mechanical engineer intern will be responsible of the development of CAD models, including design and simulation.

Main activities related to your mission:

- Create and update mechanical parts in Solidworks
- Perform mechanical simulations of subassemblies
- Design and develop new ground support equipment
- Produce 3D-printing prototypes
- Ensure tractability of the development (logbook, reports, justification file)
- Collaborate with others interns and engineers

Level: 2nd year of Master Degree or equivalent.

Duration: 4 to 6 months



Skills

- **Languages:** English – ability to discuss technical topics with experts and write technical documents.
- **CAO:** Proficiency with CAD software (Solidworks or equivalent)
- **Documentation & Reporting:** Ability to produce clear technical reports and presentations
- **Enthusiasm for space**

Location: Centre Spatial Universitaire de Montpellier, Campus Saint-Priest, Montpellier, France.

Stipend: 4.35 euros/worked hours for duration between 308 and 924 hours, 35 hours/week.

Preferred starting date: March 2026

Supervisor: Romain BRIAND – Mechanical and AIT manager.

How to apply?

(Use the form to submit your CV and cover letter)

<https://csum.umontpellier.fr/emplois-stages/>