

INTERNSHIP OFFER

MECHANICAL DESIGN OF ROBUSTA 3U V2.0 PLATFORM



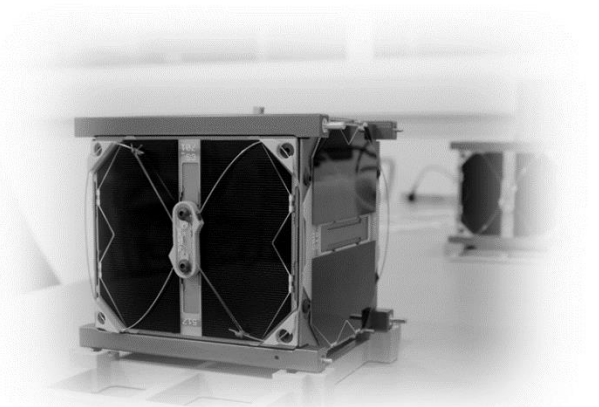
University Space Center of Montpellier (CSUM)

The CSUM has recognized expertise in the field of design, development, testing and operation of nanosatellites and their subsystems, as well as in management and product assurance of university space projects.

With 25 full-time engineers, the CSUM has AIT (Assembly Integration and Tests) resources, a 200m² ISO8 clean room and an ISO5 tent, a CIC (Concurrent Engineering Center), a vacuum thermal chamber [-170°C;+150°C], a 58 kN vibrator and a VHF/UHF and S band transmission/reception ground station. It has developed its own 1U format nanosatellite platform technology ROBUSTA-1U, 3U, 6U and 12U with the support of the Van Allen Foundation, French and European space agencies.

Main mission

In 2024, the Satellite Robusta 3A will be launch on the Ariane-6 maiden flight and is currently integrated and tested in CSUM facilities. Several improvements on the Platform have been identified on the Mechanical, Assembly and Integration Side. The CSUM is looking for an intern to work with mechanical & AIT engineers to start the predesign phase of Robusta 3A successor. The intern will work on a complete new Mechanical design of the satellite frame and its interfaces with subsystems. Design will be then presented to the 3U Team. Mechanical simulation will be conducted by the Intern. At the end of the internship, a first 3D printed prototype shall be the final objective.



Skills & Qualifications

- Solid Knowledges of SolidWorks or equivalent (Design & Simulations)
- Excellent written and oral communication skills in English language
- Autonomy and Self-starter
- Ability to function with little direct oversight
- Team skills
- Ability to work effectively in teams
- Hands on Approach
- Knowledges of Electrical Interfaces is a plus

Level : 1 or 2nd year of Master (or equivalent degree) of Mechanical or Aerospace Engineering

Preferred starting date : Spring 2024

Duration : 3 to 6 months

Supervisor, Function at CSUM : Axel GUIRAUD, Mechanical & AIT Engineer

Location of the internship : University of Space Center of Montpellier, South of France, FRANCE

Stipend : 4.05 euros/worked hours for duration between 308 and 924 hours, 35 hours/week.

How to apply?

Please upload your application at: <https://csum.umontpellier.fr/en/job-offers-internship>