

INTERNSHIP OFFER

Modeling and simulation of CubeSat projects

1 UNIVERSITY SPACE CENTER OF MONTPELLIER

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 and 3U CubeSat nanosatellite platforms with the support of the Van Allen Foundation and both the French and the European space agencies.

2 INTERNSHIP DESCRIPTION

Description of the tasks:

The intern will be in charge of the improvement of CAD models of 3U et 1U CubeSats.

- Modification of mechanical subsystems
- Update of the CAD model according to the feedback of the AIT team
- Simulation of the solar panel deployment system
- Simulation of subsystems.
- Development of new subsystems
- Design and manufacturing of GSE (ground support equipment)
- Writing of logbook

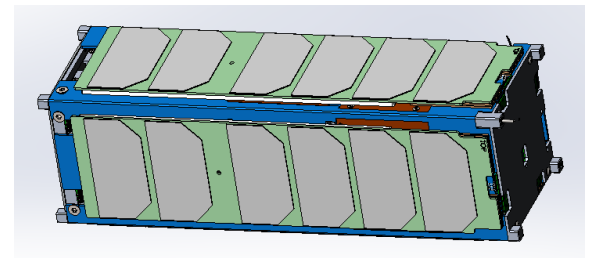


Figure 1: ROBUSTA 3A CAD model.

Languages: English - Being able to have technical discussions with experts and read/write technical documents.

Level: Master in mechanical engineering. Solidworks software background would be appreciated

Preferred starting date: March 2021. Duration: 3-6 months. Location: Montpellier, France

Supervisor, Function at CSUM: Romain Briand – Mechanical and AIT Engineer

Stipend: 3.90 euros/worked hours for duration between 308 and 924 hours, 35 hours/week.

3 CONTACT

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