

INTERNSHIP OFFER

Title: Solar Panel Hinges Design

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:

In the frame of the development of CubeSat platforms, the CSUM is looking for an intern in charge of the design of Solar panel deployment hinges for CubeSats.

The tasks are the following :

- State of the art Cubesat deployment systems
- Getting familiar with the Design of CSUM Cubesat Platforms
- Design using Solidworks software
- Production : Prototype Fabrication
- AIT : Test of the designed mechanism
- Reporting : Write technical reports of the activities

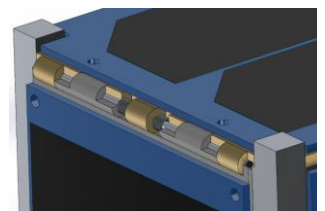


Figure 1: Cubesat Solar Panels deployment mechanism

Skills/Languages: 1 st / 2nd year of Master of Science (MSc) or equivalent in Mechanical, Materials or Aerospace Engineering, English Advanced

Proficient ideally using SolidWorks, (other CAD software packages will also be considered)

Dedication, Research, Creativity

Level: Bac+4- Bac+5

Preferred starting date: March-April 2022

Duration: 4-6 Months

Supervisor, Function at CSUM: LONDONO Juan Sebastian, Mechanical and Thermal engineer

Location of the internship: University of Montpellier - University Space Center 34090 MONTPELLIER

3 CONTACT

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