

INTERNSHIP OFFER

Title: Mechanical Ground Support Equipment development

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

In the framework of the development of a 12U CubeSat platform, the CSUM will enter a phase of production and mechanical testing of a structural model. This phase requires the development of MGSEs that will support and perform the assemblies and tests.

Intern will be in charge of developing MGSE for a 12U Cubesat platform for different phases:

- Assembly
- Handling
- Transport
- Tests

The development includes design, manufacturing, validation, and test report redaction. Intern will actively participate in tests.

Some examples of GSE that must be developed are: platform Integration support, Center of gravity test bench, TVAC test bench, sun sensor illumination test bench.

Skills/Languages: Mechanical design, CAD tools (Solidworks is a plus), knowledge in space sector, autonomous, creativity, enthusiasm.

Level: Master's Degree (Bac+5)

Preferred starting date: January 2023

Duration: 6 months

Supervisor, Function at CSUM: Juan S. LONDONO P. Mechanical and Thermal engineer

Location of the internship: CSUM Montpellier, France

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

File name:

CSUM-M-HR-PROP_GSE_Development_2022-12-02_v1.0.2..docx

Author: Juan Sebastian LONDONO PAEZ



3 CONTACT

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