

File name:
CSUM-M-HR-PROP_Internship Proposal ROB3A EPS software test and validation_2021-07-23_v1.0.0.odt
Author: **Pablo Boizeau** pablo.boizeau@umontpellier.fr



INTERNSHIP OFFER

ROB3A EPS software test and validation

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

Context: For the ROB3A mission, the Electrical Power Subsystem (EPS) is responsible for energy harvesting, storing and distribution on the satellite.

Description of the tasks: The student will participate in the software tests the EPS ROB3A software based on existing tests, and communicate with development teams.

- Update existing test system
- Apply it to the EPS subsystem
- Validate the EPS software



Figure 1: Logo of the ROB3A mission.

Skills/Languages:

- Python
- Git
- Write documentation and deliver documents

Level: Master

Location: CSUM Montpellier – Campus St Priest – Building 6

Preferred starting date: September 2021

Duration: 4 – 6 months

Supervisor, Function at CSUM: Pablo Boizeau, Satellite Embedded Software Engineer

Stipend: 3.90 euros/worked hours, 35 hours/week.

3 CONTACT

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

For any question, send an email to pablo.boizeau@umontpellier.fr