

INTERNSHIP OFFER

Redesign EPS for 6U/12U

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: CSU is preparing working on 6U and 12U satellites. For this, a new EPS will be designed, based on ROB3A EPS design.

Description of the tasks: The student will work on the new EPS design and propose modifications of EPS ROB3A y the new design of 12U/6U.

- Develop and analyze electrical design requirements
- Develop electronic circuits to perform functions per requirements
- Model and simulate circuits and analyze fit to requirements



Figure 1: Logo of the ROB3A mission.

Skills/Languages:

- Experience with Hardware/Software Development, Circuit Design, Electronics parts
- Experience in circuit analysis
- Digital and analog circuits knowledge and design comprehension.

Plus (not required):

- Git
- Mission analysis

Level: Licence

Location: CSUM Montpellier - Campus St Priest - Building 6

Duration: 2 months

Supervisor, Function at CSUM: Sara Vega Martinez

Stipend: 3.90 euros/worked hours if longer than 2 months, 35 hours/week.

3 CONTACT

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