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CHARACTERIZATION OF NANOSATELLITE MAGNETIC DIPOLE

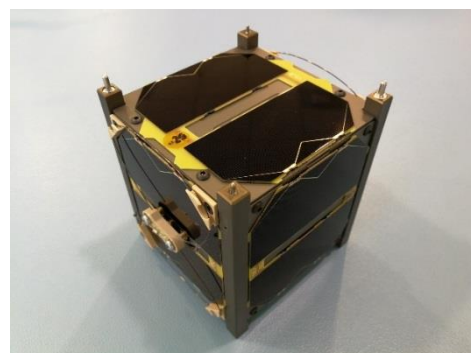
Internship offer

1 UNIVERSITY SPACE CENTER OF MONTPELLIER (CSUM)

The University Space Center of Montpellier 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 CSU 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

As an electrical engineering student, you will have to characterize the electromagnetic properties of the current design of the solar panels of CSUM's 1U CubeSats. You will assess the modifications to be implemented to ensure compliancy with the specifications, in collaboration with experts from ESA Education's Fly Your Satellite! programme. To this end, you will have to perform measurements on an established design according to a procedure you will have written, use computer-assisted software to simulate your modifications, and if necessary produce a prototype of your new design.



Skills/Languages: English – being able to have a technical discussion with experts

PCB design (Eagle or equivalent) – intermediate level

Electromagnetic fields/EMC/Current loops knowledge is a big plus

Level: 3rd year of BSc, 1st/2nd year of MSc or equivalent

Location: Centre Spatial Universitaire de Montpellier, Campus Saint-Priest, Montpellier France

Preferred starting date: Position open immediately

Duration: 3 to 6 months

Supervisor, Function at CSUM: Laélien Rivière, System Engineer and 1U satellites manager

3 CONTACT

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