INTERNSHIP OFFER

Material characterization of Niti alloy and FR4 resin

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:

ROBUSTA 1U is a 1U-CubeSat platform developed by the CSUM. It is composed of several materials as NiTi alloy or FR4 resin.

The aim of the internship is to mechanically and thermally characterize these materials to allow their accurate modelisations in the 3D models.

The intern will be in charge of the following tasks:

- Definition of the test plan/procedures
- Preparation and conduction of the tests
- Modelisation/simulation with Solidworks

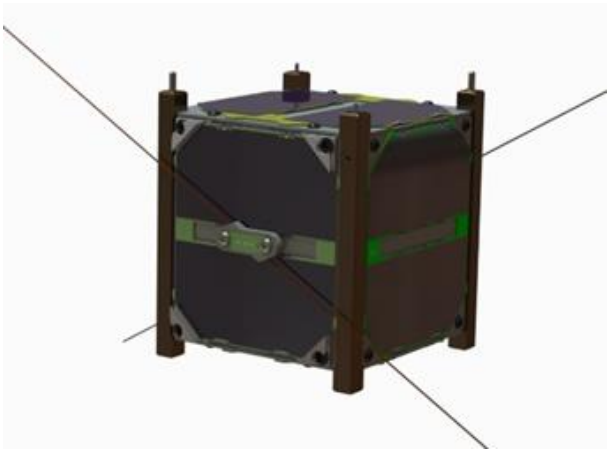

Figure 1: ROBUSTA 1U platform.

Languages: English - Being able to have technical discussions with experts and read/write technical documents.

Level: Bachelor in mechanical/material engineering. Solidworks software background would be appreciated

Preferred starting date: March 2020. Duration: 2-3 months. Location: Montpellier, France

Supervisor, Function at CSUM: Romain Briand – Mechanical Engineer

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

3 CONTACT

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