

## CUBESATS PREPARATION FOR FLIGHT

### 1. Background

The University Space Center of Montpellier is currently working on two 1U CubeSat project:

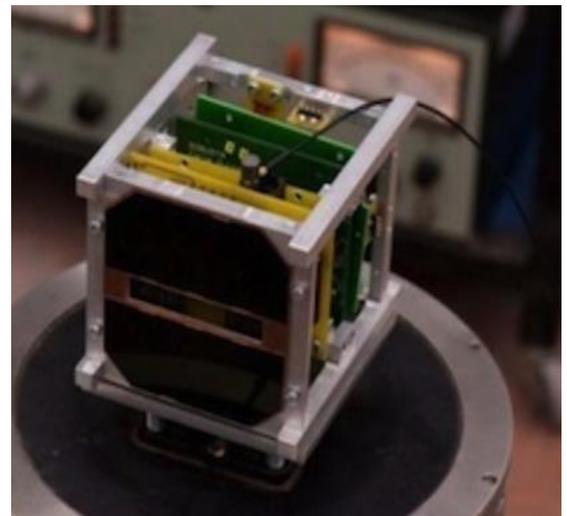
- MTCube (Memory Test CubeSat), developed in collaboration with ESA.
- CELESTA (CERN Latch-up Experiment Student Satellite), developed in collaboration by the CERN.

Both projects aim at a launch in 2018.

In the Frame of these projects an engineering model is built and the software is coded. The flight model will be built and undergo the tests in the first part of 2017. Latter on it will be necessary to finish the tests campaign and validate the satellites are working and that the Ground Segment is ready.

### 2. Internship Objectives

- Perform a small bibliographic research on the specific aspect of satellite design, assembly and verification.
- Read and understand the mission and satellite documentation.
- With the help of other students and engineers, understand the test results of the engineering models and identify potential issues.
- If necessary update the test plans to describe the test set-up, the test to be performed, etc....
- Assemble the satellites and conduct the tests
- Analyze the test results, write the test reports
- As necessary follow-up on problems found, perform the necessary analyses and re-tests.



### Internship Condition

- The internship will be of 3 months minimum
- The internship can be from 07/2017 to 01/2018, with possible holidays in august and December
- The internship will take place in Montpellier
- The applicant must be a national from a ESA Member State Country:

[http://www.esa.int/spaceinimages/Images/2013/02/ESA\\_Member\\_States\\_and\\_Cooperating\\_States](http://www.esa.int/spaceinimages/Images/2013/02/ESA_Member_States_and_Cooperating_States)