INTERNSHIP OFFER

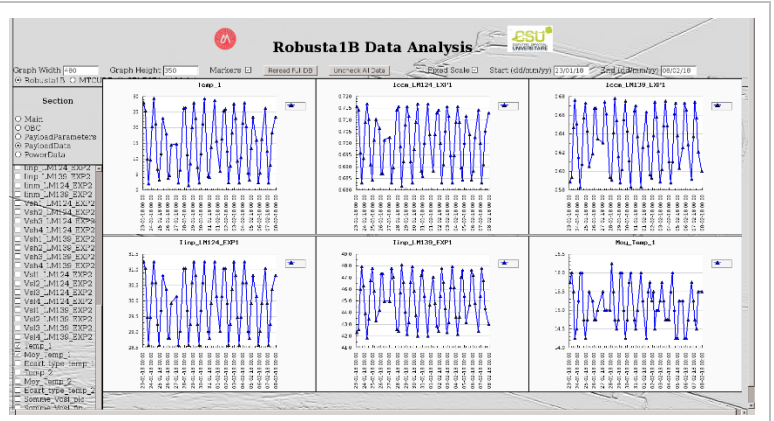**Title: Orbital data mining tool**

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:
The aim of the internship is to develop a new tool to explore the orbital data of Robusta-1B. Indeed, we want to display the data received from Rob-1B on a screen. For this, the data is stored on a database. The student will have to create the source code for this tool in order to be able to display (on user interface) the values of the various parameters in the form of a graph (eg battery voltage since x time).

Skills:

- Linux Operating System (Debian)
- Database management (MySQL)
- JavaScript
- HTML 5
- CSS

Language: At CSUM, we speak English, but if you speak French, that is a bonus!

Level: IUT/Degree/Master

Location: University of Montpellier - University Space Center - 950 rue St Priest 34090 MONTPELLIER

Preferred starting date: From January 2021

Duration: 2 to 6 months

Remuneration: From the 45th day of presence, minimum 3.9 € / h, in accordance with French law.

Supervisor, Function at CSUM: SEBASTIEN HESSE – ASSISTANT ENGINEER

3 CONTACT

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