

# IGOSat Project

Internship Proposal - Spring 2019

## System Engineer for IGOSat: from the Flat-Sat to the Engineering Model

**Skills, Keywords** : aerospace engineering, data treatment, functional tests, qualification, AIT.

**Level Wanted:** 4th year, master degree **Duration:** 4 to 6 months **Stipend :** > 500 € / mois

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### Project Description:

The Laboratory of Excellence (LabEx) UnivEarthS, set up by laboratories AIM (Astrophysique et Interactions Multi-Echelles), APC (AstroParticule et Cosmologie) and IPGP (Institut de Physique du Globe de Paris) from Paris Diderot University, is carrying carrying transverse projects between those 3 laboratories.

Using the strong involvement of those laboratories in numerous space experiments and instrumentation, an educational nanosatellite project has begun in 2013, with the financial and technical support from CNES (Centre National d'Etudes Spatiales) and the Space Campus of Paris Diderot University.

More specifically, the project is to develop a scientific 3U CubeSat, and launch it in 2019. The satellite will carry 2 payloads, one to study the Ionosphere and one to study the radiation belt.

### Internship Description:

The purpose of the internship is to iterate the Flat-sat (or also called satellite on the table), finalize the functional tests and proceed to the integration of the Engineering Model.

The flat-sat is integrating all the sub systems of the satellite, without having the final form factor of the Flight Model. If the times allows, work will be done on the Qualification Model as well.

Within a team of students, engineers and scientists, the student need to be able to work autonomously as well as part of a team, have a sense of rigor especially in writing presentation, and already a global vision of information transmission.

This internship is a good opportunity to address numerous points of space engineering.

**Website:** <http://www.igosat.fr>