



Master Internship at SkyfloX B.V.

Earth Observations Engineer for a feasibility study

Company Profile

Company: SkyfloX is a newly founded ESA Spinoff, installed in the ESA BIC in Noordwijk, which is developing the ORCA concept. ORCA is an ESA patented alternative platform concept for Smallsat-like Payloads, forming constellations. This concept has been proposed to address issues such as launch costs, debris, environmental impact, coverage and lifetime of Smallsat constellations. This alternative platform concept will bring communications/Earth observation applications to a new level. The result will be a more commercial deployment of Smallsat-like constellations

Location: ESA BIC Noordwijk, Kapteynstraat 1, SBIC Building suite 140

Website: None yet

Assignment for Internship only

Detailed description of work to be done:

The Earth Observations intern will be involved in the identification and adequacy evaluation (including commercial aspects), of imaging equipment and processing software and on-board processor for high altitude platform payloads, in line with pre-defined requirements/specifications of a payload imaging and data handling subsystem.

The tasks include support in the following areas:

- Review/select among existing, or shortly available, imaging equipment (cameras) and select appropriate lenses, in line with requirements and specified max size/mass/environmental conditions;
- Select corresponding image processing software and processor;
- Define corresponding positioning requirements (for GPS or inertial systems)
- Defining the general architecture and operating principles of the imaging payload
- Evaluating overall performance of the payload for the selected hardware/software;
- Contact suppliers to obtain full cameras specifications /prices;
- Support flight testing of selected equipment

Required profile of candidate:

Applicants for this internship should have a degree in engineering or physics, with focus in EO or Aerial/Drone Imaging.

Familiarity with optical and thermal imaging and experience in related hardware / software.

The working language is English.

Period of the internship

Preferable start date : 1 March 2017

Duration : Up to 6 months

Remuneration : Allowance and travel costs to be negotiated

Application

Students who are interested can send their CV and motivation letter directly to:
L.Rammos@skyflox.eu