

Software engineering for nano satellite ground segment

ISAE-SUPAERO + AIRBUS



NICOLAS BAUDIN
INTERNSHIPS IN FRANCE INITIATIVE

Name of the hosting institution in France	ISAE-SUPAERO
Name of the host laboratory / research team	Department of Aerospace Vehicles Design and Control (DCAS)
Address	10 Av E. Belin 31400 Toulouse France
Web site	https://www.isae-superaero.fr/en/
Name of the supervisor	Benedicte Escudier
Function	Professor, Coordinator for Space Affairs
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Internship offer

Topic of the internship (title) Software engineering for nano satellite ground segment

Proposed dates of the internship **Start:** 2019-11-01 **End** 2020-04-30

Scientific and academic objectives of the internship (detailed description of the internship content, work expected from the intern and expected outcomes):

In the frame of the CSUT, several projects of cubesats have been developed in Toulouse (3 units and 12 Units) for different missions. After the first launch in April 2019 of Entrysat, a 3-unit cubesat devoted to the atmospheric re-entry, a second 3-unit cubesat, NIMPH will allow to test in orbit some opto electronic components for optical communications.

The objective of the internship will be to assist the ground segment developers team to deploy LUPIN network and to implement software interfaces (GUI)

Name of industrial partner	AIRBUS Defence and Space SAS
Role of the industrial partner in the internship project	Co-supervision, technical expertise
Main contact at the French industrial partner	Christa BARDOT
Main contact at the French industrial partner's branch in Australia	Valentin MERINO
Targeted Australian university	Any

Expected profile of applicant

Level of study	Master's student or excellent Bachelor's student
Discipline	SPACE SYSTEMS
Required qualities, knowledge and skills	Team spirit, curiosity and autonomy, C, python, web technology (angular, js), matlab, space technology, network (hardware + software), Systems Engineering

