CSUM | CENTRE SPATIAL DE L'UNIVERSITÉ DE MONTPELLIER

FONDATION VANALLEN UNIVERSITÉ DE MONTPELLIER

Mechanical and AIT engineer

Job Offer

COMETES

FRANCE 2030

Context

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 to 12U CubeSat nanosatellite platforms with the support of the Van Allen Foundation and the French and European space agencies.

COMETES project

CSUM and the Van Allen Foundation (FVA), a foundation of the University of Montpellier overseeing the management and financial support of CSUM, were awarded a call for projects on future skills and profession, alongside 25 other training and space industry stakeholders from the Grand Sud region of France (COMETES project).

The COMETES project (funded by the National Research Agency with €20M over five years) aims to foster the emergence of talent and accelerate the adaptation of training programs, from vocational certificates (CAP) to doctorates, to meet the skill needs of the space industry.

Main mission

The candidate will join the Nanosatellites' mechanical and AIT (Assembly, integration and tests) division of the CSUM to help with the development, production and verification of the satellites. The candidate will ensure mechanical engineering of several CubeSat projects, from 1U to 12U CubeSat platforms.

Activities

- Define the mechanical architecture of satellites and related equipment
- Contribute to mechanical and AIT development plans
- Create CAD models of satellites and equipment
- Write procedures and test plans
- Perform assembly, integration and testing activities
- Ensure the maintenance of test facilities (shaker, clean room, TVAC, etc.)

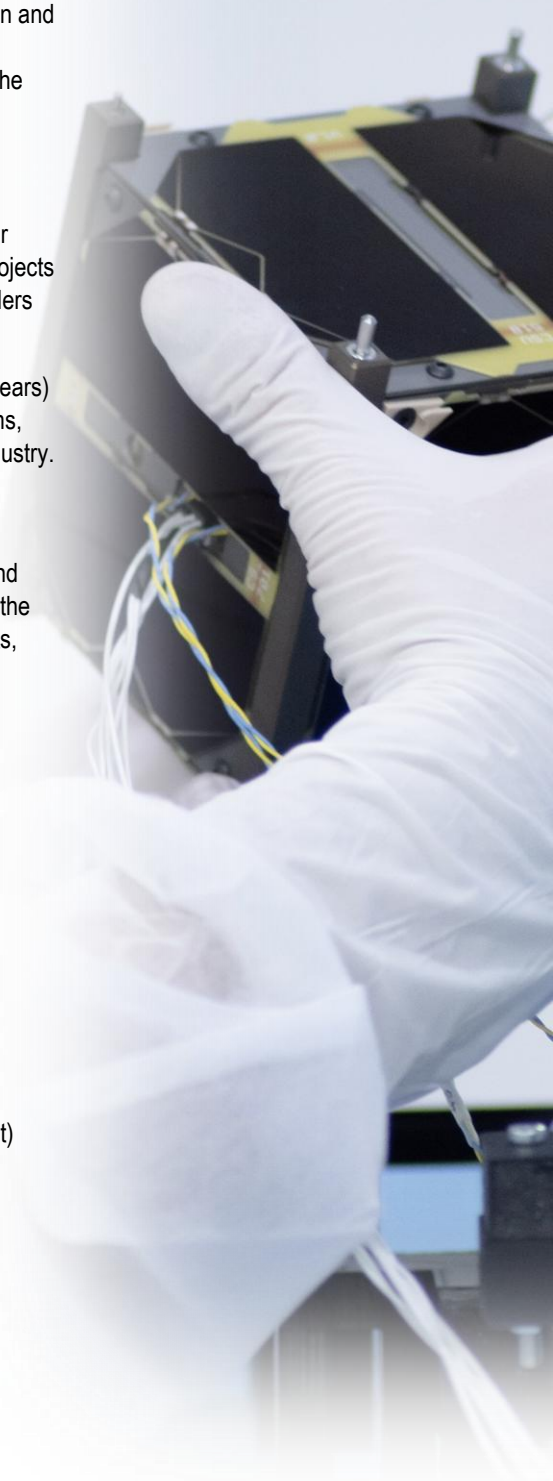
Skills & qualifications

Main:

- Degree in space engineering (Engineering school, Master's level or equivalent)
- Knowledge of CAD software (Solidworks or equivalent)
- Knowledge of machining processes
- Experience with workshop tools and equipment

Additional:

- Experience with CubeSat and nanosatellite field
- Familiarity with space standards (ECSS, CNES GNS, etc.)
- English fluent



What can we offer?

- Dynamic and challenging environment.
- Participating to the whole lifetime of a nanosatellite's project, from design to operations.
- Fully equipped facilities (Mission Control Center, UHF ground segment, S-band ground segment, ISO 8 cleanroom facility, TVAC chamber, 58kN Shaker, workshops)
- Possibility of partial remote work
- Numerous internal or external training

How to apply?

(We accept young graduate)

https://umontpellier.nous-recrutons.fr/poste/t8ayvgqrbr-ingenieur-mecanique-et-ait-fh/