

# Discover our clean room: adding 300 m<sup>2</sup> to the new space race

A joint endeavour by Expleo and Sotrem Seo



Our ISO 8-compliant clean room in Toulouse, France provides a secure environment for the testing and tuning of space equipment, such as subsystems for nanosatellites. The highly monitored facility also offers valuable storage space, as well as a platform for our space team to expand our engineering and testing services.





## Latest generation equipment

Climatic chambers, Parallel Gap equipment, bond tester, wiring hot plate, binoculars...



## Tech integration

We can provide a team of experts to perform the assembly, integration, wiring, testing and quality control in the clean room. Alternatively, we offer storage options to our clients, as well as supply chain and project management support.



## Wiring

- EGSE integration and realization of flight harnesses
- Wiring electronic-board, flight RF equipment
- Wire bonding of extra connectors on solar cells



## Speciality services

Performed by our experts with 25 years' experience

- Setting and testing of Flight model as well as Nanosatellite payload and RF equipment
- Parallel GAP tuning
- Thermal cycling and testing
- Performing manual RF measurements up to 50 GHz: TOS, TPG, C / I, Spurious, NF, etc.
- To come: Environmental testing solution

## A space which turns into a remote workshop ensuring a secured externalisation in order to scale up your capacities...



### ISO 8 certified infrastructure:

1. 300 m<sup>2</sup> clean room
2. 45 m<sup>2</sup> offices
3. Height: 3.5m
4. PVC ESD Colorex EC floor
5. Max occupancy: 30 people
6. Two airlock doors allowing the entrance of the material and the entrance of the personnel
7. Capability to split the clean room in dedicated area for confidential activities



### Real time monitoring:

Our clean room is fitted with a particle counter and 24/7 surveillance of the environment and equipped to send automatic alerts in case of environmental anomaly.

1. Temperature = 22°C +/- 3°C
2. Pressure Differential = + 12 Pa
3. Hygrometry = 55 % +/- 10%



### 24 hr surveillance

There is a dedicated encrypted VPN link between the cleanroom and the main facilities in Toulouse as well as access to the room's resources (monitoring, benches, etc.) from an external client site via a secure link.

## A space to answer your variable workloads thanks to our turnkey testing solutions

### Engineering the next space era

From satellite design to space data management, through next-gen ground systems equipment, Expleo develops and tests new products and services that are scalable, smarter and more sustainable. With our partners, we bring the wonders of space to the world, connecting the possibilities of space with life on Earth.

Expleo can help you across the lifecycle:

- Satellite payload and satellite application
- Launching activities
- Enabling complex system interoperability