ALTEN supports its customers’ development strategies in the areas of innovation, R&D and information systems.

Created 30 years ago and based in more than 25 countries, the Group has established itself as a world leader in Engineering and Technology Consulting.

We are a key actor partner in the Aeronautics & Space, Defence & Naval, Security, Automotive, Rail, Energy, Life Sciences, Finance, Retail, Telecommunications and Services sectors.

### COMPETENCIES & CAPABILITIES

In the Space sector, ALTEN deploys technical skills to support its customers on their most innovative projects with high added value:

- **Multi-specialists**: Flight Mechanics/AOCS, Mechanical Structure, Embedded System (electronics and software) and Ground Segment (infrastructure deployment, IVV).

- **Digital**: IT & Networks (Agile, Big Data, AI, Cloud, Cybersecurity, UX/UI design...) / Ground Segment applications development.

- **Expertise**: in AIT (Assembly, Integration & Test), Electrical and Avionics Architecture Design, Simulation and Validation of Optical Instruments.
ALTEN's services are deployed across three business lines:

- **Space launchers:** Mechanical design & analysis, Thermal Models, Quality, Trajectography and Orbit control, Aerodynamic calculation, Flight Path Monitoring

- **Satellites:** Global Assembly-Integration-Tests services, Avionics system design & validation, On-Board software & electronics, Instruments (optical, RF, science), Mechanical design/analysis/assembly, Thermal analysis, Thermal Protection Systems design, Attitude & Orbit Control Systems validation, Propulsion validation

- **Ground operations:** System & network administration, Software development & validation, Infrastructure design, IVV, Inboard Systems

**Our major Customers:** CNES, Airbus D&S, Thales Alenia Space, CLS, ULA, CRISA, OneWeb Satellite…

### MAJOR SPACE PROJECTS & REFERENCES

- **The European launcher Ariane 6:** as a historical partner, ALTEN actively participates in their development in various fields (structure, thermal, flight mechanical engineering, etc.)

- **Satellites’ AIT:** ALTEN capitalizes on more than 20 years of know-how in preparations for the assembly, validation tests and final integration of various satellites for CNES and other industrial customers as TARANIS, SVOM, METOP-SG, JUICE, EUTELSAT10B, etc.

- **Mini-satellites:** ALTEN has been involved in the Structure and Payload design of a constellation of 900 mini-satellites in a low orbit with ONEWEB.

- **Image processing chain engineering:** ALTEN is involved in the study, development and maintenance of the complete image processing chains for the satellite observation systems of a major player in the space sector (IASING, SUPERCAM, EUCLID, OLCI, MICROCARB, OTOS, etc.)

### POINT OF CONTACT

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**TURNOVER:** 2.6 billion euros

**WORK FORCE:** 37,200 employees

**SPACE TURNOVER:** 55 million euros

**SPACE WORK FORCE:** 750 Space Engineers in 10 countries