

- Orbital systems
- Launchers
- Satellites
- Ground segments
- Balloons
- Transversal competencies



Spacebel is a Space systems and software engineering SME operating in the Space and Earth monitoring application sectors, serving space agencies, major aerospace prime companies, EU institutions and the commercial market. We are active in several domains, mainly Earth Observation, Space flight and science, but also telecoms, navigation, exploration, launchers, balloons and space situational awareness.

## COMPETENCIES & CAPABILITIES

Our skills include the mission definition and analysis of EO minisatellites, design, development, integration, validation of IT space systems and geospatial information systems:

- Earth observation spacecraft and complete Earth Observation solutions including user requirements and system definition
- On-board control and data handling software for satellites & space vehicles
- Satellite simulation tools
- Ground systems for control and mission centers
- EO WEB services provisioning infrastructures
- Geospatial information systems support and services



# SPACEBEL

## PRODUCTS & SERVICES

SPACEBEL is a recognised developer of System Modelling and Simulation products for the satellites and probes segment, the launchers segment, the orbital transportation systems and the ground segment. Since 1994, SPACEBEL is active in the area of tests and simulation and has become a leading company in Europe in that domain. Its Modelling & Simulation Business Unit addresses most of the related technology domains such as satellite operational simulators for mission control, software validation facilities, numerical modelling of space environment, emulators of on-board processors (e.g. 1750, Erc32, Leon, Arm) and much more.

## MAJOR SPACE PROJECTS & REFERENCES

Simulation modelling platforms make part of our expertise and address most relevant standards such as Simulation Model Portability SMP2 and the ECSS E40-07 SMP from the European Cooperation for Space Standardization. SPACEBEL is the developer of the CNES Agency's simulation platform namely BASILES and VTS products. Additional mission operations tools are also available for Telemetry/Telecommand and data decoding: PrestoTools (amongst other PrestoPlot®). SPACEBEL has also an outstanding experience with other simulation modelling frameworks such as Matlab/Simulink (Mathworks), SIMSAT (ESA), EuroSim (Airbus DS) and SimTG (Airbus DS). We have delivered simulators for a number of successful ESA and CNES missions such as Proteus, Proba, Hera, Pleiades, Cso, Ceres, Swot, Svom, Metop-sg, Euclid, Mtg, Altius and much more...

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**TURNOVER** 2 469 600.00 € (2020)

**WORK FORCE** 25 employees

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