

Orbital systems
Transversal competencies



SERMA TECHNOLOGIES is an **ESA-recommended laboratory** and provides customised support for each sector stakeholder:

- Space agencies and research laboratories
- Manufacturers of launch vehicles and satellites
- Equipment manufacturers, subcontractors
- EMS
- Component manufacturers
- Space and New space Primes Actors

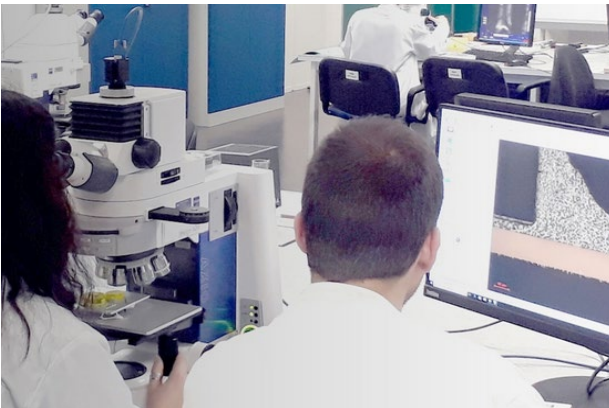
COMPETENCIES & CAPABILITIES

SERMA Technologies provides its technological expertise when supplying EEE components by conducting destructive physical analyses, qualifications of components and assembly processes, upscreening, relifing, etc.

We monitor the manufacturing processes for components and circuit boards as well as materials used through PCBA verification and PCB inspection programmes.

SERMA addresses the specific needs of the procurement chain for a component by performing each stage from design to supply of an ASIC, by performing assembly and a customised test, or by qualifying COTS plastic components.

SERMA has also developed a specific knowledge in materials and surface science that is applied for the development of materials and new processes, production quality control, troubleshooting analyses and industrial expertise.



SERMA TECHNOLOGIES

PRODUCTS & SERVICES

Batch quality control for EEE components

- DPA (Destructive Physical Analysis), Construction analysis
- Failure analysis
- Counterfeiting inspection / Obsolescence management

Electrical testing & component qualification

- Electrical test engineering
- Screening, upscreening, relifing
- Post-Programming Test for FPGA components and other programmable components (PPT)
- LAT (Lot Acceptance Testing)
- Qualification of COTS (Components Off-The-Shelf) components
- Radiation Test / Ionics contamination

Materials & manufacturing processes

- PCB incoming inspection ECSS-Q-ST-70-60
- Verification program for circuit boards in accordance with ECSS-Q-ST-70-61
- Environmental testing, microsectioning
- Training / Justification document
- Failure Surface analysis on materials

MAJOR SPACE PROJECTS & REFERENCES

We are working for all the actors of the space industry:

- 3D PLUS
- AIRBUS DEFENSE AND SPACE
- ARQUIMEA
- BEYOND GRAVITY
- CNES
- COBHAM GAISLER
- CRISA
- EREMS
- ESA
- OHB
- SENER
- SODERN
- THALES ALENIA SPACE
- SYRLINKS

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TURNOVER 26 M€

WORK FORCE 205

SPACE TURNOVER 5 M€

SPACE WORK FORCE 34