

Transversal competencies



EMITECH-GNSS is a testing laboratory specialized in geolocation technologies. Its testing methods are accredited by COFRAC in accordance with the ISO/IEC 17025 standard, ensuring metrological rigour and measurement traceability, as well as guaranteeing the independence of the evaluations performed.

In this capacity, the laboratory designs and implements testing and expertise services dedicated to assessing, validating and qualifying the performance of positioning systems. Notably, these services address the analysis of the accuracy and integrity of critical localisation functions used in Smart Mobility applications.

COMPETENCIES & CAPABILITIES

EMITECH-GNSS covers three types of competency:

- 1- METROLOGY: Specification of methods, Performance of measurement campaigns, Interpretation of the collected data to deliver reliable numerical outcomes with managed uncertainties.
- 2- GEOLOCATION: Expertise in precise positioning solutions based on GNSS technologies.
- 3- CRITICALITY: Identification of feared situations, risk ranking and evaluation of the occurrence of phenomena.



EMITECH-GNSS

PRODUCTS & SERVICES

Testing engineering

- High-accuracy solutions - e.g. Receiver, FW, Assistance Data, ...
- Proprioceptive and exteroceptive sensors - e.g., IMU, SLAM, ...
- Sensor fusion algorithms
- GNSS anti-spoofing and anti-jamming countermeasure systems
- Time references (Timing) - EN16605

Testing facility engineering

- Definition and design of test scenarios
- Massive data generation (real or synthetic)
- Numerical models of GNSS environments
- AI-based numerical models of positioning system

Consulting

- Assistance to implement GNSS technologies
- Research and Development studies
- Training

MAJOR SPACE PROJECTS & REFERENCES

R&D contracts

- CNES: SPRING v2 & 3D, BSAB, APPP, GEOFER, R&R1, R&R2, VEDECOM, GIMU, CartoGNSS, G6PO, G-EMUL 1 &2,
- ESA: HISTB2, GUEST, HDGNSS, GEOTRUST
- EUSPA: JUPITER, STARGATE // SHIFT2RAIL - GATE4RAIL

Legal Metrology

- ECOMOUV: ECOTAXE
- CEN/CENELEC: GPSTART1, GPSTART2, GPSTART3

Industry

- GNSS MANUFACTURERS: uBlox, Septentrio, ST Micro, SBG, Syntony
- CAR MAKERS: Renault, Stellantis, Naio
- EQUIPMENT SUPPLIERS: Actia, Continental, Agreenculture
- SYSTEM INTEGRATOR: Airbus, Thales, M3 Systems, GMV, Safran
- TESTING LAB: UTAC, Trescal, CRMT

Subsidized Projects

- BPI / FUI: Path4Flight ; DIRECCTE: REALOC, GEOSUR, ILLION
- OCCITANIE REGION: GEOFER, IQDATA
- NOUV. AQUITAINE REGION: KAPILARRA

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WORK FORCE 4

SPACE TURNOVER 0,5 M€

SPACE WORK FORCE 4