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## **PLATINAAE, an analytical platform for your research in environmental chemistry**

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Ecotoxicological studies need high quality measurements of chemical contamination within the all the compartments of the environment. In consequence, analytical laboratories must produce traceable analytical data with high level of confidence, in numerous matrices.

PLATINAAE (PLAteforme d'Ingénierie en chimie Analytique pour l'Agriculture et l'Environnement) is the central platform for analytical chemistry of INRA (French National Institute for Agricultural Research) mainly dedicated to plant and soils analysis. This platform is supported by two laboratories located at Arras (LAS) and Bordeaux (USRAVE). Both are equipped with high-performance instrumentation and are accredited according to the standard ISO 17025.

## PROCESS

### PLANTS/SOILS

DRYING OF SAMPLES  
GRINDING/SIEVING  
HOMOGENEISATION  
SAMPLING

EXTRACTION/DIGESTION  
INSTRUMENTAL DETERMINATION

- Inorganic analysis
- Organic analysis
- Pedo-agronomic analysis

QUALITY CONTROL  
CALCULATION

RESULTS



## EXPERTISE

ADVICE FOR SAMPLING

SAMPLE PREPARATION

AVOIDING CONTAMINATIONS

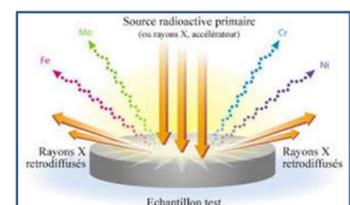
ROUTINE ANALYSIS

QUALITY MANAGEMENT

- LIMS
- Quality control
- Method validation
- Uncertainty evaluation
- Metrology

INNOVATION and R & D

- Gas chromatography
- Liquid chromatography
- Mass spectrometry (HRMS, MSMS...)
- ICP-OES
- ICP-MS
- X-ray fluorescence
- Very small samples
- Ultra-traces
- Emerging contaminants
- Chimimetry



PLATINAAE works essentially as a partner in research programs. The main themes investigated are environmental contamination, biogeochemical cycle of elements in various ecosystems (crops, lands, forests...), food chain or plant physiology. In these scopes, PLATINAAE participates then to numerous programs for environmental observations and experimentations, such as the ICOS Ecosystem project, the European program Bio soil, The RMQS network, the BRAMM network, or the RENECOFOR program (monitoring of French forests).