

Agroecology, Hydro-geochemistry, Environments & Resources Unit



Main aims and issues addressed

Improving understanding of the links between the biological, physical and chemical characteristics of soils and plants, the productivity of agrosystems and ecosystems, and plant health. Elucidating the determinism underpinning the dynamics of chemical and biological elements at the interface between soils, plants and microorganisms, and how it influences the services provided by agrosystems and ecosystems (water filtration and regulation, plant productivity and health, habitats and biodiversity, carbon storage, nutrient cycle and transfer, etc.).

Missions

- Identification of bioindicators for soil health and evaluation of agrosystems and ecosystems
- Development of biocontrol solutions
- Identification and approval of bioinputs for plant nutrition
- Environmental engineering and remediation
- Analyzing the impact of residual organic products and nutrient flows

Applications

Soil management and crop quality • Plant health and integrated protection • Agronomy & agroecology • Organic matter and biogeochemistry • Microbial ecology of soils • Hydrogeochemistry & water quality • Nutrient dynamics and transfer



Scientific and technical expertise

Research to improve understanding of how the soil-water-nutrients-plants-microorganisms ecosystem influences plant quality and health.

This expertise particularly comes into play at the experimental "Normand Serre" facility and the Hydrogeology technical facility.

Scientific partners

Partenaires académiques :

UNIVERSITIES OF PICARDY JULES VERNE • ROUEN • CAEN NORMANDY
LE HAVRE • REIMS • LIÈGE (BELGIUM) • WAGENINGEN (NETHERLANDS)
WESTERN AUSTRALIA (AUSTRALIA) • CADI AYYAD (MOROCCO)

Institutional partners:

INRA • CNRS • IRSTEA • CEA • BRGM • ADÈME • CHAMBERS OF AGRICULTURE NETWORK • ACTA • ARVALIS • TERRE INNOVIA • ASTREDHOR • SILEBAN • TERRE DE LIN • AGENCE DE L'EAU SEINE NORMANDIE

Industrial partners:

BONDUELLE • VÉOLIA ENVIRONNEMENT • SEDE • SAFEGE • ARD BAYER • DUPONT • VIVESCIA • CAPSEINE • ACTALIA

Scientific networks:

SFR CONDORCET • SFR NORMANDIE VÉGÉTAL

One research unit and two teams on the Beauvais and Rouen campuses.

Recognized scientific expertise with more than 20 publications each year in international peer-reviewed journals and involvement in around 20 projects each year with national or European academic partners and industry stakeholders.



The unit

+ 25 Associate professors and research coordinators


6 Research engineers and technicians

12 Doctoral students



Managers / Contacts

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