

WATER TREATMENT

**EXPERTISE & CHARACTERIZATION
EMERGING POLLUTANTS
(MICROPLASTICS, PFAS...)
DEPOLLUTION TECHNOLOGY
CIRCULAR WATER ECONOMY
BIOPRODUCTS**



**Leading edge scientists & engineers for R&D
collaborations and pre-industrial development**
Let's scale-up your activities!

Small scale (nm- μ m)

Large scale (m)

Laboratory scale

- Jar tests
- (Bio) Clarification
- Filtration
- Adsorption
- Transparent Flotation
- Foam fractionation
- Transparent Hydrocyclone
- Foaming tests

Middle scale

- Hydrocyclone skid
- Flotation skid
- Adsorption columns
- In-line water quality evaluation

Semi-industrial pilot scale

- Multi-phase flow loop
- Modular water treatment skid

Complex fluids characterization

Emerging pollutant analysis

Direct Numerical Simulation

Multiphase flow modeling

Carbon footprint & Life Cycle Analysis

OUR ACTIVITIES

- (Co-)Development of innovative and eco-responsible technologies
- Detailed understanding of phenomena: complementarity between experimentation and modeling
- Multi-scale experimentation, from laboratory to pilot scale, to propose solutions to industrial issues
- Operational risks: assessment, recommendations and best practices



HOW TO WORK WITH US?

- R&D services or collaborations
- Application to industrial cases
- Multi-partner research projects

IFP ENERGIES NOUVELLES (IFPEN)

IFPEN is the French national institute for research and training in the fields of energy, mobility and the environment. Its teams innovate for a low-carbon and sustainable world, from scientific concepts through to technological solutions.



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