

Offers for internships 2024-2025

LOA

- Aerosol Measurement Over Oceans

PhLAM

- Characterization of Gas-Phase Atmospheric Organic Compounds and their Weakly Bonded Complexes via Rotational Spectroscopy
- Complexation of trivalent actinides by phosphate species
- Linking core spectra features of actinide complexes to their local environment
- Studying Reactivity of Atmospherically Relevant Radicals using Chirped Pulse Fourier Transform Millimeter wave spectroscopy
- Theoretical Investigation of the Surface Activity of Organosulfates on water droplets

Subjects for internships

- Can be outside Lille
- change from year to year, depending on students, labs, etc.
- Not so many from LOA this year. Could be different next year

UMET

- High PT experiments for modeling the Earth's inner core
- Machine-learning approaches for nanoparticle simulations
- Modeling of dislocations in perovskite oxides ABO_3
- Phase-field modelling of radiation induced segregation application to nickel based alloys
- TEM analysis of a possible natural deep Earth sample

IEMN

- Using strong coupling to detect gas traces in the THz range
- Exploring Proteins quantum dynamics by using strong coupling in the Terahertz range
- Developing Novel THz Spectroscopy Techniques for Biological Sample sensing
- THz-Photonics in Biomolecular Research

