



Ph.D. Position in Isotope Biogeochemistry and Pollutant Transfer

The University of Strasbourg has 79 research units that encompass all disciplinary fields and is at the nexus of international collaborations. Strasbourg is a pioneer city in terms of respect for the environment, a very pleasant place to live in and at the crossroads of the European economy, along the Rhine axis, in a very dense trading zone between Northern and Southern Europe. The Laboratory of Hydrology and Geochemistry (LHyGeS, UMR 7517, CNRS-University of Strasbourg; <https://lhyges.unistra.fr>) focuses on flow and transport in continental hydrological systems. Research activities associate biogeochemistry with hydrology to understand processes at different scales and to develop transport models. LHyGeS conducts lab- and field-scale experiments to study transport of water and contaminants in catchments, soils and aquifers.

In order to investigate the transport and transformation of contaminants in agrosystems, we are looking for a creative, qualified and motivated Ph.D. candidate to contribute in the development of monitoring and modelling approaches. The Ph.D. candidate will be working on interpretation of isotope effects during the biotic and abiotic transformation of pollutants in lab-controlled experiment and in agrosystems, and model-assisted interpretation of isotope data for field interpretation of pollutant transformation and transport in agrosystems.

The work package comprises the following tasks:

- Development of methods for stable isotope analysis of pollutants in agrosystems
- Study of isotope effects during biotic and abiotic transformation of pollutants
- Field work and sampling at equipped reference agricultural catchments
- Development of a numerical models for contaminant transport and transformation at catchment scale; model runs and sensitivity studies
- Scientific publication and presentation

The PhD position requires:

- Master Sc. in biogeosciences, isotope (bio)geochemistry, or contaminant hydrology
- Experience in analytical development and pollutant monitoring using stable isotopes, and/or in numerical modelling
- Excellent knowledge of English (written and oral)
- Knowledge of hydrological and biogeochemical processes in agrosystems, and pollutant (bio)transformation will be an asset.

Please send your application including a letter of motivation, a CV, copies of certificates, a list of publications/presentations (if available), and the names and contact information of several referees, preferably in electronic form (compiled in one pdf) to:

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and

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