

Postdoc position in Environmental Chemistry at Montpellier University

A postdoc position is available in the framework of the European project "Quality and management of Intermittent rivers and associated groundwaters in Mediterranean basins (INWAT)" funded by the PRIMA programme (www.prima-med.org). The position will be funded for 24 months and the candidate will work at UMR HydroSciences (www.hydrosciences.org) in Montpellier but several short stays are planned at partner organizations mainly at CERTE (Tunis) and at CSIC Barcelona.

INWAT project will develop and improve tools to analyze, understand and predict hydrology, chemical and ecological status, and services in the Mediterranean area characterized by temporary waterways, and will integrate all these pieces in a decision-support system that will be co-developed with stakeholders from different case-studies reflecting different socio-environmental settings from the northern and southern shores of the Mediterranean Sea.

In this general framework, the postdoc candidate will investigate the fate of organic pollutants under water scarcity scenarios and their transfer from temporary waterways to aquifers. This will include field monitoring of pesticides and pharmaceuticals. A dynamic prioritization list of pesticides and pharmaceuticals will be made for targeted experimental sites. The data of water quality will be related to biodiversity (work carried out by another partner of the project) in river basins. Compounds that are responsible for effects in relation to specific in vivo endpoints will be identified. Further objectives will be 1) to investigate the capacity of the hyporheic zone for selected organic contaminants attenuation and 2) to investigate the phototransformation of selected organic contaminants in temporary waterways.

It is a pluridisciplinary project and as such, the candidate will work with researchers specialized in different fields (hydrology, environmental chemistry and ecology). She or he will have access to outstanding scientific equipment and will have the possibility to carry on her or his research training in a good quality environment. His or her tasks will be the following ones:

- Design and achievement of experiments at laboratory and field scales
- Contribution to the supervision of a doctoral thesis.
- Sample analysis (water, sediment, biota) by LC-HRMS

Her or his duties will be the following ones:

- Interpretation of the experimental results
- Writing articles
- Contribution to research management in the host labs

Skills/Qualification

- Good background in environmental chemistry and a good skills in trace analysis of organic contaminants in environmental matrices by LC-HRMS.
- A PhD or a first postdoc position in a similar research field will be appreciated.
- Proficiency in both written and oral English
- Capacity to work in a pluridisciplinary environment
- Driver's license

Net salary: 2000/2200 €/month depending on experience.

Application and deadline

- Candidates should send their CV and letter of motivation to serge.chiron@umontpellier.fr
- Deadline is 30th June 2019.
- Starting date: September/October 2019