

Job offer

Analytical Chemist specialized in suspect and non-target screening applied to water treatment

Company

The Paris-based International Research Center for Water and the Environment (CIRSEE) is specialized in the production of drinking water, water distribution networks, the treatment and reuse of waste water, waste recycling, the management of health and environmental risks and, finally, data analysis. The CIRSEE is SUEZ's main competences center. It plays a leading role in the coordination of the Group's international technical and scientific network. Its mission is to identify and develop the scientific, technical and technological skills necessary to underpin the operational excellence of our performance and develop new services for our customers.

Object

We are offering a unique opportunity for an engineer specialized in Analytical Chemistry to join the Water and Chemical Fingerprint team of the CIRSEE. The team's expertise relies on a state-of-the-art laboratory equipped with a full range of GC-MS, LC-MS and LC-HRMS instrumentations. The team is involved in cross-functional projects supporting the evaluation and optimization of drinking water, wastewater and industrial water treatment performance and assessing the risk of new and emerging pollutants for the group's activities.

The department main missions are:

- Develop analytical methods for the characterization of organic and inorganic pollutants in solid and liquid matrices related to water and wastewater treatment units. Detect the presence of emerging pollutants in water resources and monitor their fate along treatment lines as well as assess the impact on design and operation of treatment units. These analytical capabilities are deployed both in research projects and technical assistance missions.
- Evaluate and benchmark the performance of SUEZ network of laboratories by the organization of annual round robin tests for over 100 drinking water and wastewater laboratories worldwide. Provide technical support to laboratories for the implementation of corrective actions.
- Perform a technical watch to identify and invest in innovative techniques and analytical instrumentation



Your main missions :

By working in the high-profile field of the Suspect Screening and Non-Target Analysis, the engineer will be in charge of:

- Leading the development and deployment of these latest generation techniques for the identification and monitoring of emerging substances in drinking water production and wastewater treatment
- Providing technical support to laboratory technicians of the team in the development of analytical methods for the quantification of organic micropollutants in diverse matrices (GC-MS et LC-MS-MS). Support in the interpretation and validate the generated results.
- Building and managing Research and Innovation projects (elaborate project proposals defining the technical approach, required budget and expected outcomes, lead the project and coordinate internal and external partners, subcontractors and suppliers, monitor progress and report to stakeholders)
- Participating to the technical and scientific watch related to novel analytical chemistry instrumentation
- Promoting results generated by research and innovation projects both within SUEZ entities and the scientific community by participating to national and international conferences or by means of peer-reviewed articles.

We are looking for: (Requirements)

- An engineer specialized in analytical chemistry
- 5 years of experience in applied research related to the analysis of organic micropollutants in environmental matrices
- Proficiency in the analysis of organic micropollutants by LC-MS-MS with solid experience in high resolution mass spectrometry
- Sample preparation for liquid and solid matrices and GC-MS
- IT skills: Office Pack, knowledge on the analysis of data by R or Matlab
- Fluent in both French and English (oral and written)
- Good written and oral communication skills

Essential Skills

Working cross-functionally

Innovative Thinking

Problem Solving

Pro-active approach

Autonomy

Efficient Planning Skills



Ability to communicate and share information at different levels in the organization

Job location

Based at CIRSEE (Centre International de Recherche Sur l'Eau et l'Environnement) at Le Pecq (78230), France.

Contact

Mar Esperanza, Head of the department « Analytical Chemistry »

Mar.esperanza@suez.com

Mobile phone:+33 (0) 6.80.36.43.04