

3-year PhD position in Environmental Analytical Science for Marine Chemical Screening at Aix Marseille University, Laboratory of Environmental Chemistry, France.

- **JOB TITLE**

PhD in Environmental Analytical Chemistry

- **RESEARCH FIELD(S)**

Analytical science, environmental chemistry, integrative and spot sampling, hyphenated chromatography, marine sciences.

- **JOB LOCATION**

Laboratory of Environmental Chemistry at Aix Marseille University (France), campus Saint-Charles and Arbois.

Aix-Marseille University (AMU, <https://www.univ-amu.fr>) welcomes 80,000 students and nearly 8,000 staff on 5 large campuses of international standards. Its A*Midex University Foundation, which carries the IDEX on a long-term basis, contributes to the development of a world-class interdisciplinary higher education and research centre. Known as an "intensive research university", it is home to 121 research structures linked to major national research organisations. In keeping with the interdisciplinarity that Aix-Marseille University places at the heart of its development strategy, it has recently created 13 institutional institutes guaranteeing bridges between research and training and a broad international outlook. The mediterranean Institute for Environmental Transition (ITEM, <https://www.univ-amu.fr/fr/public/institut-mediterraneen-pour-la-transition-environnementale-item-0>) positions Aix-Marseille University at the international level and contributes to the implementation of the Sustainable Development Goals. Through its Mediterranean roots, the institute proposes to develop interdisciplinary systemic research to understand the effects of global change on society and natural resources.

The Laboratory of Environmental Chemistry (LCE, <https://lce.univ-amu.fr/en/directory/integer-posuere-sed-magna>) is a Joint Research Center (UMR7376) affiliated to the Aix-Marseille University and the CNRS (French National Centre for Scientific Research). Research works aim to advance knowledge in the field of environmental analytical chemistry and in the chemical and physico-chemical evolution of contaminants in various environmental compartments (air, water, soil). This knowledge can meet environmental and societal issues such as the management of natural and human ecosystems by improving the monitoring of chemical and environmental quality of the ecosystem and its evolution.

- **JOB DESCRIPTION**

Temporary position as PhD (3 years), Gross salary : 1768.55 € per month

- **QUALIFICATIONS/SKILLS/EDUCATION & RESEARCH REQUIREMENTS/DUTIES**

The PhD fellow will be invested in the 3 year collaborative project **POP-Transition** (Regulatory and emerging pollutants along the Mediterranean Coastline – Impact of management policies on the ecological transition) funded by the Mediterranean Institute For The Environmental Transition (ITEM) from A*MIDEX Foundation and including five academic partners. This project aims at developing sampling tools, multi-scale sampling stations, biological indices and field surveys, to evaluate the impacts of brominated flame retardant substances on the water quality, the coastal habitat, the benthic ecosystem and the fishing resource, and their consequences on fishing.

The PhD will be in charge of methods development for regulatory and emerging concern brominated flame retardants, including extraction/preconcentration techniques for water, sediment and biological matrices and hyphenated techniques based on chromatography and high resolution or tandem mass spectrometry. He will evaluate the potential of application of the passive sampling approach to emerging contaminants in coastal environments and their benefits for the evaluation of impacts on marine biota and for the prioritisation of contaminants and locations. His/her research will provide new monitoring tools for chemicals of emerging concern, deliver new compound information, enable the growth in capacity of monitoring along the Mediterranean coastline.

The candidate should have a master degree: in environmental chemistry, analytical science, environmental sciences, marine/water sciences, or water sciences. Skills in hyphenated analytical techniques as well as in environmental sciences are mandatory. Sampling campaigns at sea may form part of this work to generate samples for sample analysis. Experience in field campaigns (sampling designs and tools), strong knowledge in statistics and modelling are also desirable. As stated above, the candidate will have to interact with different members of the consortium including colleagues from psychosocial sciences. Evidence of working in multidisciplinary teams and ability to communicate across disciplines is desirable. Candidates should have a strong interest in the marine environment and/or environmental science. More specifically he/she will have to contribute to supervision of Master students, who will support the different tasks of the study.

- **APPLICATION DEADLINE**

30th of November 2020

○ **REQUESTED DOCUMENTS OF APPLICATION**

Send in one pdf file the following documents: Master diploma (or equivalent), Curriculum Vitae, letter explaining your motivation, letters of recommendation (2 at least)

○ **CONTACT TO APPLY**

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