

## **18 months Post-doctoral position in France**

### **Aix Marseille University**

### **ATMOSPHERIC CHEMISTRY**

- **JOB TITLE : 18 month postdoc position**

**RESEARCHER PROFILE**

x Postdoc/R2: PhD holders

- **RESEARCH FIELD:** Atmospheric Chemistry

Main sub research field or disciplines : Atmospheric Chemistry, Mass spectrometry, Ambient Measurements, VOC speciation, aerosol chemical composition, statistical analysis

- **JOB description :**

OASIS -Organising a Sustainable Future: Innovations for Urban Societies

We are seeking a motivated and enthusiastic postdoctoral researcher to lead experimental work in atmospheric chemistry and physics, within a multidisciplinary project investigating the impacts of urban greening and mobility strategies on air quality. The recruited postdoctoral researcher will be responsible for conducting air quality measurements during field campaigns, with a focus on the organic composition of gas and particle phases, using state-of-the-art online instrumentation from the MASSALYA platform (<https://lce.univ-amu.fr/equipes/massalya>). Volatile organic compounds (VOCs) will be measured using PTR-ToF-MS, complemented by offline analyses. Aerosol physical properties (number and size distributions) and chemical composition will be characterised using a high-resolution aerosol mass spectrometer (HR-AMS) and the CHARON inlet coupled to PTR-ToF-MS, together with ancillary measurements (black carbon, NO<sub>x</sub>, ozone).

The candidate will support instrument deployment and operation in close coordination with partner institutes, lead data analysis to quantify the impact of urban design and greening on air pollution and contribute actively to the dissemination of scientific results through publications in international peer-reviewed journals and presentations at international conferences. The candidate must have a PhD in atmospheric chemistry or physics, or engineering.

This position is part of the OASIS-Urbaines project (funded by the ITEM Institute), a companion project of PEPR RESILIENCE (<https://pepr-vdbi.fr/projets/projets-resilience>), which focuses on sustainable and inclusive urban planning to improve well-being and environmental health. Within these two projects a transdisciplinary approach—including air quality, urban heat islands, greenhouse gas emissions mobility, and biodiversity—will be deployed to evaluate urban greening policies under climate change. The final goal is to optimise greening and mobility plans to maximise co-benefits across these areas. OASIS-Urbaines combines field measurements and modelling at multiple scales to provide recommendations for local authorities and develop tools (maps, models, guides) to support policy and raise public awareness of the impacts of urban planning decisions.

**TYPE OF CONTRACT :** TEMPORARY

**JOB STATUS :** FULL TIME

**HOURS PER WEEK :** 35

**APPLICATION DEADLINE:** 15/03/2026 23H59

**ENVISAGED STARTING DATE :** 01/04/202

**ENVISAGED DURATION :** 18 months<sup>6</sup>

**GROSS SALARY:** depending on your professional background : the first year ranging from 2616€ and 3062€ /month and the second year (last 6 months) between 2348€ to 3368€/month (gross salary)

**WORK LOCATION(S):**

The candidate will be recruited at the LCE and will benefit from a reception office for the duration of the contract. The candidate will be under the supervision of B. D'Anna and J. Kammer (LCE), and will benefit from the support of engineers of LCE. The candidate will have access to the LCE's cutting-edge MASSALYA platform for VOC and particle measurements

**WHAT WE OFFER:**

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**Additional information:** The Euraxess Center of Aix-Marseille University informs foreign visiting professors, researchers, postdoc and PhD candidates about the administrative steps to be undertaken prior to arrival at AMU and the various practical formalities to be completed once in France: visas and entry requirements, insurance, help finding accommodation, support in opening a bank account, etc. More information on AMU EURAXESS Portal

○ **Qualifications, required research fields, professional skills :**

The candidate must hold at least a PhD in environmental sciences (ideally in atmospheric chemistry) and have a 3 years' experience in research. He/She will have interest in, or have conducted research in atmospheric chemistry and physics. Experience in VOC or aerosol measurements online mass spectrometry is required for this position, ideally during field campaigns. Skills in advanced statistics and automated data processing (preferably in the R programming language) are a prerequisite, due to the large amount of data that will be generated during the field campaign . Given the interdisciplinary nature of the project, the candidate must show ability to work with multiple research fields and institutions. Strong communication and organizational skills are thus essential to ensure the success of the project.

○ **Soft skills:**

As the project is interdisciplinary, the candidate must be motivated and ensure that complementary areas of expertise are integrated in a balanced manner, regularly present their progress to the team and write scientific articles in English, demonstrate organization, listening skills, dynamism and communication skills and have a minimum B2 level of English. Experimental fieldwork requires being able to adapt and modify campaign dates according to unforeseen circumstances (weather conditions, instrument failure, etc.). The candidate must be flexible and available.

○ **REQUESTED DOCUMENTS OF APPLICATION, ELIGIBILITY CRITERIA, SELECTION PROCESS**

Curriculum vitae

A motivation letter

2 recommendation letters

**HOW TO APPLY**

Email to:

[barbara.danna@univ-amu.fr](mailto:barbara.danna@univ-amu.fr)

[Julien.kammer@univ-amu.fr](mailto:Julien.kammer@univ-amu.fr)