Job Offer: Data Scientist
Location: LSCE, CEA – Gif-sur-Yvette, Paris area, France
Contract Duration: 15 months
Starting date: September 2025

The *Laboratoire des Sciences du Climat et de l'Environnement (LSCE)* is one of Europe's leading climate research laboratories. As part of ongoing efforts to enhance climate-related services and infrastructure, we invite applications for a **Data Scientist** to contribute to cutting-edge research and development in emission quantification and digital service interfaces.
The successful candidate will contribute to the development of the Technology infrastructure component of major environmental European research infrastructures such as ICOS (Integrated Carbon Observation System). This work will support European and international climate change mitigation efforts, focusing particularly on **methane emission quantification** ranging from urban to industrial sources such as natural gas facilities and wastewater treatment plants. Methane is the second most important greenhouse gas contributing to climate change and represent crucial mitigation options.

Main Responsibilities

- Contribute to the development of emission quantification methods based on **mobile and fixed measurement data** provided by users.
- Develop and implement **modular open-source models** including Gaussian plume dispersion models, Mass balance and peak-based quantification methods, integration of a Lagrangian dispersion model
- Design and build:
    - A robust **data input interface**
    - A **graphical cartographic interface** using the **OpenStreetMap (OSM) API**
    - A **web-based API and user interface**
- Apply and test models on **ongoing large field measurement campaigns in France and in Europe**
- Assist in the **scientific analysis and publication** of results

Required Skills and Qualifications

- Strong proficiency in **Python** and experience working with **open-source codebases**
- Experience in environmental modeling or atmospheric dispersion modeling
- Familiarity with **geospatial data**, cartographic APIs (e.g., OSM), and web/API development
- Ability to work in a collaborative, interdisciplinary research environment
- Ability to make constructive propositions
- Knowledge of greenhouse gas emissions and boundary layer meteorology is a plus

Why Join Us?

This is an exciting opportunity to:

- Work in a **world-class research environment**
- Make a tangible contribution to **climate science and environmental monitoring**
- Be part of a collaborative and international scientific team

Application

This is a unique opportunity to contribute to impactful environmental research within a world-class research institution. Interested applicants should submit a CV, cover letter and 2 references contacts detailing relevant experience and motivation.
Please address questions and applications to Jean-Daniel Paris jdparis@lsce.ipsl.fr
Please start your e-mail title with "Data scientist"

Application deadline: 30 June 2025