

Technician-Engineer (short-term) position on

Sensor testing and field campaigns for GHG projects

Description of the employing organization

The Laboratory of Climate Sciences and the Environment (LSCE) is a joint research unit between the Commissariat for Atomic Energy and Alternative Energies (CEA), the University of Versailles Saint-Quentin (UVSQ) and National Centre for Scientific Research (CNRS). Researchers at LSCE are recognized worldwide for their expertise in the areas of measuring greenhouse gas, flux modeling of greenhouse gases, and quantification of these fluxes with inverse modeling. Technicians, engineers and researchers of LSCE move across the planet to take samples which recorded past climate variations (sediment, water, ice, air, rocks, organic material ...) or install instruments to monitor the current environment.

Context

The LSCE leads several projects to develop innovative services for measuring CO₂ and CH₄ emissions on the scale of large urban areas and industrial sites using atmospheric monitoring techniques. The objective is to demonstrate that accurate monitoring of emissions and their evolution is possible and to achieve the creation and adoption of a MRV system (Measurement - Reporting - Verification) transposable on numerous sources.

As part of these efforts novel “cheap” sensors will be tested and improved in a joint project with an external industrial partner. Those new instruments shall also be deployed on different industrial sites e.g. waste water treatment plans and landfills to assess their robustness and capabilities.

The technical engineer will play a fundamental role since he will bear responsibility for the sensors and potentially on field campaigns abroad supporting the Chaire BridGES them and its students. The recruited technician-engineer will also learn new skills on the calibration of measuring equipment.

Core tasks

- Manage the fleet of equipment he has under his responsibility (purchase, installation, maintenance, repair)
- Analyse problems and propose improvements
- Manage campaigns measures (adequate equipment, planning) while ensuring compliance with procedures (safety, quality, standard, legislation, regulation)
- Write reports (analyses, statistics and recommendations)
- Support for activities across for the Chaire BridGES team at LSCE

Profile and skills

- We are looking for a dynamic, determined, motivated person that can quickly integrate into our team and demonstrates autonomy and initiative.
- Higher education, BAC+5 or preferably PhD in chemistry or physical sciences
- Experience with data treatment are a necessity and include experience using a commonly used scientific script languages (R, Matlab and/or Python)
- Fundamental knowledge in atmospheric chemistry, meteorology, IT and electronics are beneficial especially if related to GHG and air pollutants
- Fluency in English and French are required, other official UN languages can be considered as advantage.
- Being able to travel for field campaigns is also pre-requisite

Administrative details

Contract duration determinee for 9 months, based in Gif-sur-Yvette (Campus: Orme-des-Merisiers)

Gross annual remuneration ca. € 31k equivalent

To be filled as soon as possible

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