
Job :	Post - Doctorant	Catégorie : A
Allocation and location of job :	Clermont-Ferrand – Université Clermont Auvergne	
Contract length :	20 months	
Vacancy :	01/10/2019	

MISSIONS AND PLACE :

The agent will integrate the Physical Meteorology Laboratory (LaMP) in Clermont-Ferrand (France). As part of the ANR BIOMAIDO: "**Bio-physicochemistry of tropical clouds at Maïdo (Reunion Island): processes and impacts on the formation of secondary organic aerosols**", the LaMP is responsible for two tasks: one on the origin and chemistry of SOA, the other on the bio-physico-chemical characterization of clouds to better constrain the CLEPS OD-model developed at LaMP. This axis should allow us to better understand the involvement of aqueous phase chemistry processes in the formation of Secondary Organic Aerosol (SOA) in the tropical atmosphere.

ACTIVITIES :

- **Experimental activities:** laboratory analysis of the chemical composition of the cloud and gaseous water samples collected during the BIOMAIDO campaign in collaboration with IGE Grenoble, project partner; participation to the field campaign by contributing to the deployment of cloud gas, aerosol and collection instrumentation
- **Interpretation and evaluation of field data:** properties of AOS and cloud water (concentrations, composition, oxidation state), relationship between gaseous processes and properties of the SOA, VOC/OVOC partition between gas and aqueous phases, definition of physicochemical scenarios on the basis of observations to constrain the CLEPS process model

SKILLS :**Knowledge :**

- Atmospheric chemistry with experimental skills
- English : B2 to C1

Operational skills :

- Analysis of cloud samples
- Treatment of various environmental data to elucidate the role of aqueous chemistry on SOA formation

Behavioral skills :

- Ability to adapt to field conditions and teamwork
- Ability to adapt to interdisciplinary work (physics, chemistry, biology);
- Ability to handle multiple chemical data (water, air, aerosol)

PREREQUISITE/EDUCATION:

PhD in atmospheric chemistry with experimental work and data analysis

SPECIFICITES DU POSTE :

- Employment contract : 37h30 hebdomadaire
- Remuneration : 2610€ Brut mensuel
- Déplacements avec travail de terrain (Ile de La Réunion et Grenoble)

POUR POSTULER :

Please send a CV **and** motivation letter to before **July 21th 2019** : *M. le Président de l'Université Clermont Auvergne – Direction des Ressources Humaines* par mail à cette adresse :

recrutement.drh@uca.fr