Post-doctoral position in Atmospheric Geochemistry

As part of the Post-Doctoral Program “Make Our Planet Great Again” (MOPGA), the “University of the Littoral Opal Coast” (ULCO), in the north of France and the “Université Libre de Bruxelles” (ULB) are looking for a post-doctoral fellow for original contribution to a Project on Atmospheric Geochemistry in Antarctica.

Description

Antarctica is considered the best preserved region on Earth from anthropogenic emissions. However, the impact of anthropogenic airborne particles and pollutants could be significantly larger than expected. Our goal here is to provide detailed physical-chemical analyses of both atmospheric and surface snow particles by automated-FEG-SEM-EDX analyses. The airborne particles collected in snow or by passive samplers (ULB – G Time Laboratory, https://gtime.ulb.ac.be/) in East Antarctica are available yet. Particle size distribution and chemical composition will be obtained using single-particle analysis (FEG-SEM-EDX) and SEM-EDX mapping, combined with multivariate and/or cluster analysis (ULCO – LPCA Laboratory, https://lpca.univ-littoral.fr/). All this information is relevant for interpreting the sources, transport and deposition of mineral dust, but also anthropogenic particles in polar regions, especially in comparison with particles from potential source regions.

An application for funding is submitted from MOPGA Postdoctoral Program Third Call (deadline for applicants: July 5th 2020). Candidates must complete a PhD for less than five years on the date of submission of the application. They must not be French nationals and must not have been resident in France after September 1st, 2019. The candidates must come from one of the 46 eligible countries listed here: https://campusfrance.smapply.io/prog/MOPGA_post_doctoral_3/.

Candidate Profile

The ideal applicant will have a PhD in Analytical Chemistry or Geochemistry, experience with advanced analytical instrumentation, such as Scanning Electron Microscopy, enthusiasm and diligence in laboratory work, good writing skills in English and some knowledge of/willingness to learn basic French.

Hosting laboratory: Dunkerque (Dunkirk) – North of France

Duration: 12 months, starting no later than 1st January 2021

Monthly Take-home Pay: about 2200 €

Application (before May 31st 2020): To apply, send to Nadine Mattielli (nmattiel@ulb.ac.be), Karine Deboudt (karine.deboudt@univ-littoral.fr) and Pascal Flament (pascal.flament@univ-littoral.fr): a Curriculum Vitae, including a publication list, a motivation letter, a selection of 2-3 publications in PDF and the name and contact information of 2 references.