

POST-DOC in ATMOSPHERIC SCIENCES

Candidates are invited to apply for an 18-month postdoctoral scientist position at the National Meteorological Research Center (CNRM-GAME) in Toulouse, France (<http://cnrm.meteo.fr>). The research is part of the MIRIAD project (Mesures scientifiques de flux de surface en milieu maritime par Drone) that uses unmanned aerial vehicles (UAVs) to study air-sea exchange at the ocean surface.

The measurement of energy and aerosol fluxes at the ocean surface is of paramount importance for understanding marine boundary layer meteorology and the earth's climate. To address challenges in measuring these fluxes, the goal of this project is to develop new scientific observation capabilities by merging innovative technologies, such as miniaturization of sensors and autonomous platforms. In particular, the UAV, designed to maintain low-altitude flights above the ocean surface, will allow a complete characterization of the surface energy flux, physical and optical properties of aerosols, as well as their fluxes, in the near-surface atmosphere. The candidate will develop and test the aerosol component of the payload that will be integrated into a mid-size UAV in collaboration with project partners. An experiment is planned during the project to demonstrate the UAV and scientific capabilities. The candidate will conduct the data analysis and publish the results of this experiment.

The candidate must have a PhD in atmospheric science and ideally have experience with:

- aerosol and boundary layer dynamics
- instrument development
- data analysis / interpretation of in-situ measurements

The position is currently available and the appointment is for 18 months (12+6). The salary will be approx. 2400€ per month (net).

Please send a letter of interest and your CV to Greg Roberts (roberts.gregc@gmail.com) and Fred Burnet (frederic.burnet@meteo.fr).