



Position: 12 month research engineer in numerical modeling

Mission

Research engineering support for regional atmospheric chemistry modeling and links to climate

Activities

This is a research engineering position to support regional atmospheric chemistry modeling based at IGE. Key responsibilities include:

- Installing and running WRF, WRF-Chem, and CHIMERE on multiple computing platforms.
- Documenting, developing, and standardizing pre-processing tools using open science frameworks.
- Completing WRF, WRF-chem, and CHIMERE runs defined by scientific teams.
- Documenting, developing, and standardizing post processing tools used by multiple researchers to deliver open and reproducible science.
- Creating visualizations of model output for the public and outreach purposes.
- Supporting air trajectory modeling based on WRF.
- Creating tutorials and instructional materials on regional modeling for students and researchers.
- Managing and coordinating computing allocation proposals on multiple computing platforms.
- Managing wiki and code sharing tools (GitHub) internally and externally to deliver open and reproducible science.

Skills

- Ph.D. in atmospheric science, aerosol science, climate sciences, or related field
- Knowledge about modeling aerosols and/or atmospheric chemistry
- Knowledge of the WRF model, WRF-Chem model, or CHIMERE model
- Experience with HPC and supercomputing environments
- Experience with Unix and Fortran
- Knowledge of NetCDF encoding and related data analysis tools (cdo, nco)
- Programming skill : scripting and visualization (e.g. bash, R, python, ncl)
- Excellent skills in written and spoken English
- Collaborative spirit and communication skill
- Ability to work in a fast paced, international, team-oriented environment

Working environment

This position is at the Institute of Environmental Geosciences (IGE), which is a public research laboratory in Grenoble, France.

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To apply go to:

<https://emploi.cnrs.fr/Offres/CDD/UMR5001-VALLAN0-071/Default.aspx?lang=EN>