Two-year post-doc position in Earth system modeling in Dijon, France

A 2-year postdoctoral position in Earth system modeling is available to work at the Biogeosciences research laboratory in Dijon, France. The post-doctoral project is part of the French national (ANR) project CYCLO-SED (2024–2028) investigating the physical mechanisms allowing astronomical forcing to be recorded in marine sediments during non-glacial, deep-time geological periods. The successful candidate will improve the representation of atmospheric dynamics (using an emulator) and continental weathering (based on existing models) in the Earth system model of intermediate complexity cGENIE, study the model behavior and publish the code.

The candidate will have a unique opportunity to work with various models, including the ocean-atmosphere general circulation model FOAM and the Earth system model of intermediate complexity cGENIE.

Candidates with experience in climate and/or biogeochemical modeling are encouraged to apply. Applicants should have solid quantitative and programming skills (notably in Fortran and ideally in Python), as well as good writing skills. Speaking French may be an asset but is not mandatory.

The Biogeosciences research unit is a multidisciplinary research centre in Environmental Sciences gathering more than 130 members, located on the campus of Université de Bourgogne in Dijon, at a walking distance from the city centre. Biogeosciences develops research in a wide range of disciplines, including biology, ecology, paleontology, geology and (paleo)climatology. Numerical simulations will use the high-performance computing facilities of the regional cluster of U. Bourgogne. The candidate will benefit of the expertise of key project collaborators during stays at other institutions in France (CEREGE, Aix en Provence; GET, Toulouse and Observatoire de Paris), Belgium (UC Louvain, Louvain-la-Neuve) and the USA (U. California Riverside, Riverside, CA, USA).

Review of applications will begin on March 15th and will continue until the position is filled. Targeted starting date is April 1st 2024 but is flexible. Salaries depend on experience. To apply, please submit:

i) a cover letter summarizing research interests and expertise;
ii) a CV (including publications and names and contact information for at least two references).

Questions and application should be sent to Alexandre Pohl (alexandre.pohl@u-bourgogne.fr)