



- **INRAE is offering a Postdoctoral Researcher position**
- **Contract duration: Fixed-term period 30-months (2.6-year)**
- **Associate Institution: INRAE and Lawrence Berkeley National Laboratory**
- **Start Date: ASAP**

## Research topic

We seek a creative post-doctoral scientist with experience in mechanistic modeling of ecosystem biogeochemistry, vegetation, hydrology, and thermal dynamics. The candidate will use an established model to analyze microbial, soil organic matter, and vegetation dynamics in three ecosystems undergoing experimental whole-soil warming.

The science goals of this project (<https://psgresearch.wordpress.com/project-soilwarm/>) are to discover how microbial community activity, hydrology, thermal dynamics, and vegetation dynamics respond to soil warming. We will use the model to evaluate climate change scenarios and ecosystem responses across spatial and temporal scales. We will also work toward management recommendation for ecosystem adaptation to climate change.

This 2.6-year position will be housed between Lusignan URP3F/ UMR ECOSYS Joint research unit INRAE, AgroParisTech, Université Paris-Saclay and the Berkeley Lab USA (depending on the candidate's needs) and will involve collaboration with several other institutions on the project.

## Minimum Qualifications

Candidates must have received a PhD within the past three years or within the next few months from an accredited college or university. A strong technical background in the relevant modeling methods and strong science background in land processes are required.

## Preferred Qualifications

- Must have experience developing, benchmarking, and analyzing mechanistic land models.
- Demonstrated ability to perform numerical simulations with complex models.
- Strong mathematical and numerical modeling skills.
- Strong written and oral communication skills with significant motivation to publish in the peer reviewed literature.
- Strong interest in team-based interdisciplinary science, with the willingness and ability to work independently when required.

## Salary

Gross salary (maximum rate of 50% - 3681 - 3964€) will be based on professional experience and skillsets.





## How to apply

Applicants should submit a complete application package by email to Dr. Abad Chabbi [abad.chabbi@inrae.fr](mailto:abad.chabbi@inrae.fr) and Dr. William Riley [wjriley@lbl.gov](mailto:wjriley@lbl.gov) as soon as possible.

The application should include a cover letter highlighting current research, activities and skills relevant to the position; an updated resume; an extensive publication list as well as 2 or 3 of your choice publications; the names and contact information of at least two professional references familiar with your qualifications and skills; the copy of your degrees and transcripts of your academic record.