

Date of publication of the job offer: 06 / 07 / 2023

Job title: Post-doctoral position on Phytolith Analysis of Drought-resistant crops

Job description

We invite applications for a funded, full-time post-doctoral position (Type 1) in “Long term agricultural system in drylands: an approximation from experimental archaeobotany”.

The successful candidate will be based at the Department of Humanities at the Universitat Pompeu Fabra but will formally depend on the Centre for Studies for Planetary Wellbeing. The UPF Centre for Studies on Planetary Wellbeing was launched in 2022 with the aim of creating synergies between different stakeholders working on Planetary Wellbeing within Universitat Pompeu Fabra. One of the main missions of the Centre is to foster transdisciplinary research. Thus, we are seeking a candidate with a demonstrated profile that bridges different fields of research, in this case Humanities and Plant Science.

The successful candidate will be expected to:

- Conduct field and laboratory research on C4 plants phytolith production related to environmental changes and especially the effect of drought on phytolith formation and characteristic
- Analyze stable isotope composition of phytolith extracted from experimentally grown crops (oxygen and silicon)
- Run statistical and modelling analysis of the data obtained
- Apply her/his expertise, as well as the data obtained to archaeological and historical research contexts
- Produce high-ranked publications following the principle of open research
- Collaborate in the running of the Centre for Studies on Planetary Wellbeing (organization and dissemination of events, funding application, etc.).

Candidates are strongly encouraged to participate in relevant academic conferences in Spain and/or abroad.

Project and Institution that finance the contract

The contract will be financed by the Centre for Studies on Planetary Wellbeing of the Pompeu Fabra University

Information on the minimum requirements

Candidates must:

1. Hold a PhD in Biology, Plant Physiology, Archaeology (History), Botany, Ecology or related fields, with a specialization on phytolith analysis.
2. Have an excellent understanding of the relationship between plant physiology and phytolith production.
3. Provide evidence of the ability to address humanities and social sciences research questions.
4. Demonstrate experience with stable isotopes (^{13}C , ^{18}O and ^{30}Si) as well as with C4 plants.
5. Demonstrate an excellent track-record of publications and the ability to carry out independent, interdisciplinary work.
6. Possess excellent oral and written English. Knowledge of Spanish or Catalan will be valued positively.
7. Display good team-working attitude.
8. Be willing to dedicate part of their time to the activities of the Centre for Studies on Planetary Wellbeing.

Women and minority candidates are especially encouraged to apply.

Benefits of the opening

The successful candidate will be based at the Universitat Pompeu Fabra, Barcelona.

This is a 3-year full-time contract with the possibility of annual extensions up to a maximum of 6 years. The gross annual salary would be 24.940,72€.

The successful candidate will have a working space at the Universitat Pompeu Fabra, in the Mercè Rodoreda building, Campus de la Ciutadella, in a shared office. She/he will have full access to the Laboratory for Environmental Archaeology and the support of a Laboratory technician as needed.

Information on the application process

Candidates must attach their CV, a letter of motivation [in PDF format] and a photocopy of their DNI/NIE/Passport and a copy of the Doctorate Degree.

Applications are submitted through the Interfolio Platform, to the address that will be made public on the Universitat Pompeu Fabra website: <https://www.upf.edu/web/humanitats/convocatories-obertes>

Deadline to submit applications

Candidates will have 7 calendar days to submit their applications from the day after the offer publication date.

The **selection committee** will be made up of:

PRESIDENT: Carla Lancelotti
COMMITTEE MEMBER: Josep Luis Martí
SECRETARY: Nuria García Tuset

Substitute committee

PRESIDENT: Marco Madella
COMMITTEE MEMBER: Céline Kerfant
SECRETARY: Alessandra Varalli

Contact

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