



## Post-doctoral position

**Field:** Environmental Geophysics

**Contract:** 1 year (with possible extension)

**Period:** April-May 2022 – March-April 2023

**Work time:** Full time

### Job description

The UMR CNRS 5805 EPOC research team (Bordeaux, France) is seeking applications for a Postdoctoral Fellow to develop and implement geophysical approaches to characterize soil-plant interactions that govern grapevine variability at a Château near Bordeaux. In particular, the position focuses on the evaluation of the geophysical and hyperspectral methods to extract Carbon and Nitrogen components of respectively soil and plants. The approach will be validated with both soil and plant samples.

The position requires an outstanding record of original and high-quality research and demonstrated experience. Essential for the position is a Ph.D. in geophysics, earth sciences, environmental sciences, engineering or related degrees. The incumbent must demonstrate experience in remote sensing/ hyperspectral data processing, environmental geophysics, including geoelectrical field data inversion, integration and interpretation. Required also is to know well python and/or R programming language. Desired is a solid foundation in soil physics, statistics, and geospatial constructs. The incumbent is expected to be motivated, well-organized, and able to perform independent research leading to high-quality presentations and publications. Furthermore, a clear communication in English or French is required.

The Postdoc Fellow will locate in Talence (Bordeaux, France) and in a vineyard (near Bordeaux), and must have ability to commute between both to perform laboratory and numerical analysis of acquired samples/data at the University. This project will be led in collaboration with Lawrence Berkeley National Laboratory (California, USA).

A cover letter describing interest in and experience relative to the position, as well as a CV, is requested by 31/03/2022. The documents will be sent to Myriam Schmutz and Nicola Falco.

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