

LOMC – UMR 6294 CNRS- Le Havre Normandie Université

Postdoctoral Position

Reconstructed soils from waste

Profile/ expected skills	The candidate, holder of a PhD or Master's degree in civil engineering, Environmental Sciences or related disciplines, with the qualities of a researcher (rigor, writing, synthesis...), have strong experimental skills in soil testing and sediments analysis, as well as a knowledge in geoenvironmental engineering or related fields. Finally, the candidate is expected to be able to easily integrate with a research team and work independently.
Location	Laboratoire Ondes et Milieux Complexes (LOMC, UMR CNRS 6294 – Le Havre Normandie Université), 75 rue Bellot, 76600 Le Havre Involved group: <i>Geo-Environment and Porous Media (GEMP)</i>
Duration	12 months (Extendable for a further period 1 year) – full-time-position
Gross salary	From 2390 € to 2590 € / month according to the candidate experience
Deadline	Apply before: April 25 th , 2021 – Contract start: May 15 th , 2021
Application	Send CV + cover letter by e-mail to: mohamed-tahar.ammami@univ-lehavre.fr and ahmed.benamar@univ-lehavre.fr

Job Description:

The proposed job is part of the European Interreg Franche (channel) England “RECONSOIL” dedicated to reconstitute soils from waste. The project is under to collaborate with various partners (BRGM, Caté and University of Plymouth).

Cohesive sediments represent the main part of dredged material in estuaries and are able to serve as soil. The project aims to create reconstructed soil Mixtures, which may be used across a range of applications comprising a mixture of readily available and locally-sourced waste materials (soils displaced by construction, dredged sediments from waterways, agricultural and horticultural wastes). Overall, waste materials will be examined as potential constituents for reconstructed soils. The candidate will conduct initial screening based on physical, mineralogical, hydrological, and biogeochemical properties for the identified waste materials before concluding about their suitability. The soil mixture will be suitable for multiple

applications (brownfield sites, public spaces, residential and ornamental gardens, urban farming, and agriculture).

The proposed work is structured as follows:

- Identifying appropriate waste materials from local construction sites & waste streams
- Using electroremediation technique to treat polluted sediments selected to be suitable for reconstructed soils
- Developing pilot soil mixtures based on end use (urban gardens; land reclamation; brownfield site remediation)
- Analysing and monitoring soil safety – ensure that there are no harmful materials (contaminants) in the new soils.

Requirements:

- Deep knowledge of soil treatment (restoration) and life cycle assessment, including data quality and geoenvironmental skills.
- Experience will be appreciated on environmental footprinting and quantification
- Experienced as team's researcher

Desirable:

- Experience in laboratory research
- Experience in scientific management
- Communication and team working attitude.
- Fluency in English as working language, knowledge in French is welcome
- Good integration in multidisciplinary teams.
- Organization and motivation.
- Compromise and cooperation.

The candidates will be evaluated based on their qualifications and ability to fulfil the responsibilities as outlined for this project. We are looking forward to receiving your application including the following documents:

1. A cover letter summarizing your qualifications for the position and stating your major achievements (in English)
2. A detailed curriculum vitae with a list of your publications
3. The names, addresses and emails of two potential referees

For further information, please contact:

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