

“PhD position at the University of Genoa on bio-based stabilisations for sustainable ground improvement to mitigate the risk of landslides”

Applications are welcome for a PhD position at the University of Genoa (Italy). The main objective of this doctoral project is to devise sustainable bio-based stabilisations for problematic soils (e.g. swelling or collapsible soils, sulphate-rich soils, etc.) to enhance the resilience of infrastructure earthworks (such as dams, embankments, cuttings) subjected to extreme rainfall events. The PhD candidate will conduct a broad experimental programme involving mineralogical characterisation and hydromechanical testing of both unstabilised and bio-stabilised soil samples under saturated and unsaturated conditions. The ultimate goal of the project is to increase the safety factor of slopes while decarbonising the ground improvement sector.

We are looking forward to receiving applications from highly motivated and curious candidates with a First Class Master’s degree (or equivalent) in civil engineering with a specialisation in geomechanics, geochemistry or other relevant fields. Interested candidates are required to provide:

- A cover letter (max. 1 page)
- A Curriculum Vitae (max. 2 pages)
- Transcript of marks from Master’s degree (or equivalent)
- A research proposal (max. 5 pages)

The position is funded for 3 years commencing on 01 November 2023.

The Successful Applicant will work under the supervision of Dr Agostino Walter Bruno, Dr Leonardo Lalicata and Pr Domenico Gallipoli at the University of Genoa.

More details on the project and application submission at the following link:

<http://dottorato.dicca.unige.it/eng/>

Application deadline: 10 July 2023 12h00 (Italian time)

Contact details for further information: agostinowalter.bruno@unige.it