



Postdoctoral Position: Multiscale Modelling of Clayey Geomaterials

Location: Computing Center for Geotechnical Engineering, Zhejiang University, Hangzhou, China

Duration: Two years position with a flexible start date in 2024.

We are looking for an enthusiastic and accomplished postdoctoral researcher to join our team at the Computing Center for Geotechnical Engineering of Zhejiang University (Top 3 Universities in China and 50 worldwide). The ideal candidate will have a PhD in mechanical, chemical or civil engineering, with a proven track record of excellence. Our research focuses on the nano-, micro- and macro-scale modelling of clays, by developing molecular approaches, micro-poromechanics and elasto-plasticity. We search for a candidate with a strong background in numerical modelling, particularly Molecular Dynamics, DEM, FEM using GROMACS, LAMMPS, Abaqus, *etc.* Experience in granular simulations and clay mechanics is an asset.

The primary objective is to gain a better understanding of the nano-scale behavior of clays (creep, shear, swelling-shrinkage, *among others*), which will enable us to investigate micro- and macro-scale clay deformations under complex loading conditions. We are looking for a highly motivated and talented researcher who is eager to contribute to this exciting project and join a friendly working environment and talented team of postdocs, PhD and master students.

Benefits:

- Highly competitive annual salary of over 350,000 RMB, commensurate with experience and qualifications.
- Comprehensive start-up package and support for securing further funding opportunities.

To apply for this position, please send your cover letter and CV to Dr. [Hamza MHAMDI ALAOU](mailto:hamza.mah@zju.edu.cn) (hamza.mah@zju.edu.cn) and Pr. [Chaofa ZHAO](mailto:chaofa.zhao@zju.edu.cn). (chaofa.zhao@zju.edu.cn). The review of applicants will be done on a rolling basis and applications will be accepted until the position is filled.

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