

Post-doctoral researcher: Interaction between Sediment and Salt Tectonic Deformation

Salary: ¥300,000 - ¥320,000 per annum (approx. \$46,500- \$49,600)

Location: Changping District, Beijing

Closing date: 15th Sep 2021

Job Summary

The college of Geosciences (China University of Petroleum-Beijing) invites applications for a Post-Doctoral position in a tectono-stratigraphic project in salt-bearing basins. The starting date is preferably on 1st Oct and no later than 1st Jan, 2022. Consideration of applications will begin from 1st July and continue until the position is filled.

The research project involves numerical simulation of siliciclastic sedimentary systems as well as the deformation of underlying viscous salt. The successful candidate will join a team of sedimentologist and structural geologist on a new project exploring the interaction between sediment and salt tectonics on various fronts. The project will use new and existing numerical tools detailing the process of sediment deposition and the feedback mechanism between the newly deposited sediments and the deformable salt underneath. The findings from the numerical study could be taken forward by physical simulations from both sedimentary and structural perspectives using the newly established water-tank and sand box laboratories within the college.

The postdoctoral fellowship aims to provide the candidates with an opportunity to pursue a scientific career path within or beyond academia. Therefore, the postdoctoral research fellow is encouraged to submit a professional development plan before accepting the offer.

The post has an initial period of 12 months with a possible extension between 12 (very likely) and 24 (subject to funding) months.

Application criteria:

- Programming experience and experience in numerical simulations (such as finite-difference and finite-element methods) are essential for this position.
- Documented research experience with sedimentological, stratigraphic or salt tectonic studies are highly desirable.
- Candidates are expected to have an excellent academic record and be fluent in written and spoken English. Knowledge of Chinese will be a plus but not required.
- Applicants must hold a degree equivalent to a Chinese doctoral degree in the fields of Earth Sciences or a related field. Only applicants with an approved doctoral thesis before the closing date are eligible for applying.

How to apply: as a minimum, all applications must include (pdf-files only, max. 10 MB, no zip):

- Personal information and academic background.
- Curriculum vitae including list of publications.
- Motivation letter for the proposal (max. 2 pages).
- The letters of two references or contact information of at least two references.
- PhD Diploma(s) and PhD thesis reports. If the original documents are not in English or in Chinese then copies of the original documents as well as a certified English translation must be attached.
- Documentation of language skills if required.

Applications will be sent to Dr. Zhiyuan Ge gezhiyuan@cup.edu.cn and Dr Junhui Wang wangjunhui@cup.edu.cn by email with a title including Postdoc_Application_ISST_Your Name. Only shortlisted candidates will be contacted for interview. Should you have any questions regarding the simulation of sedimentary systems or salt tectonics, please contact Dr. Junhui Wang and Dr. Zhiyuan Ge respectively. More general enquiries of the post can be addressed to Dr. Zhiyuan Ge or check the website at <https://geogezhiyuan.com/>.

Our group is committed to supporting and promoting equality and diversity and to creating an inclusive working environment. We encourage applications from all sections of society.

Due to the current travel restrictions entering China and the extended quarantine period required, postponed starting time for foreign applications is possible. The university will provide necessary help for applying VISA entering China.

Further information

China University of Petroleum-Beijing (CUP), founded in 1953, is a national key university directly affiliated to China's Ministry of Education. The college of Geosciences consists of Departments of Geology, Department of Petroleum Exploration and Development Geology, Research Center of Basin and Reservoir, and the State Key Laboratory of Petroleum Resources and Prospecting. The College of Geosciences aims to build itself with a focus of internationally influential researches in geosciences.