



Open Postdoc & Ph. D. Positions in Civil and Ocean Engineering at Tsinghua University, Shenzhen, China (Sept. 2024)

Multiple postdoc and Ph. D. positions have recently opened at Tsinghua University (up-to-date QS world rank 20, US News world rank 14) to conduct research relating to civil engineering or ocean engineering (civil world rank top 10). A multiscale approach integrating structural/material experiments, numerical simulations, and theoretical modellings will be exerted in the research. The research will take place at Tsinghua University's Shenzhen International Graduate School (SIGS), located in Shenzhen (the city next to Hongkong), China, and is partly sponsored by NSFC, Great Bay Area regional funds, and Tsinghua SIGS's scientific research funds.

Successful applicants will join a team managed by Prof. Yutao Guo, a young special researcher and professor in civil and ocean engineering. The recent focus is on novel ocean structures, green construction materials, as well as AI-aided computing & design. Any research backgrounds or interests in these topics are welcome.

Candidates with excellent structures, materials, AI or relative backgrounds are sought: structural analysis (steel/concrete, material, member, or system level), numerical models (FEM, CFD, Abaqus, Ansys, Marc, Midas, etc.), computational methods (constitutive model, solid mechanics, fluid dynamics, AI-aided method, etc.). The positions are open to any citizenship and all qualified applicants are welcome.

POSTDOC POSITIONS (UP TO TWO THIS PERIOD)

Your Profile

You MUST have a PhD degree in related fields, specializing in one or more areas listed above. You MUST be under the age of 35, and have obtained the PhD degree within 3 years.

Chinese is NOT required. You are fluent in English and have excellent academic writing skills. A good track record of publications in field-leading journals is preferred.

Our Offer

You will be appointed fulltime for two years with opportunities of extension. The position is available as soon as possible.

The gross annual income will be between RMB300,000 (180,000 tax free) -500,000 (competitive) (approx. USD 42,200-70,400), including the municipal allowance, base salary, research subsidy, accommodation subsidy, etc. (according to latest policies).

An extra subsidy of RMB 60,000 per year (approx. USD 8,400) will be available if successfully selected for “Shuimu Tsinghua Scholar Program”.

A competitive benefits plan will be offered. Additional benefits/subsidies are available if employed fulltime in Shenzhen upon completion of the postdoc research.

Ph. D. POSITIONS (UP TO TWO EACH YEAR)

The PhD program is four years (for candidates with a master's degree) or five years (for candidates with a Bachelor's degree) in duration. The upcoming application is for 2025. Successful PhD candidate will be awarded with doctor's degree in Civil Engineering, Tsinghua University (world rank top 10).

You should have a degree in related areas. A range of scholarship opportunities are available (see links below for details) and monthly living allowance will be provided by the PI. Chinese is NOT required if you are fluent in English. Good records of educations or researches are preferred.

PI INFORMATION

Dr Yutao Guo obtained his PhD degree in Tsinghua University under the supervision of Prof. J.G. Nie (Chinese Academy of Engineering), and had a postdoc period in Imperial College London under the supervision of Prof A.Y. Elghazouli (Royal Academy of Engineering). Guo is now an assistant professor/PhD supervisor/special researcher in Tsinghua SIGS, hosting research funds of more than 5 million including national and provincial key projects, and with more than 30 publications in top journals or conferences and more than 10 main involvements in practical projects. The research interests include: steel-concrete composite structures, tunnels & bridges, underground structures, green materials, repairing & strengthening, computational methods, AI-aided design, etc. For more information, please see links below.

APPLICATION & USEFUL LINKS

Please send the application with a detailed CV to: guoyutao@sz.tsinghua.edu.cn. An interview might be raised after initial selection. All positions are open until filled.

Tsinghua University: <https://www.tsinghua.edu.cn/en/>

Tsinghua SIGS: <https://www.sigs.tsinghua.edu.cn/en/>

The PI's personal website: https://www.sigs.tsinghua.edu.cn/gyt2_en/main.htm

Graduate admissions and financial aids: <https://yz.tsinghua.edu.cn/en/>