

PhD studentship (Full-time)

Institution	Xi'an Jiaotong-Liverpool University, China
School	School of Design
Supervisors	Please list all the names in the supervisory team. It should be consistent with the information on your approved PGRS proposal. Principal supervisor: Professor/DrWei Zhang (XJTLU) Co-supervisor: Professor/Dr Xiaonan Tang (XJTLU) Co-supervisor: Professor/Dr Lei Fan (XJTLU) Co-supervisor: Professor/DrMing Li (UoL)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Research on local scour mechanism of bridge piers under extreme flood peaks
Contact	Please email wei.zhang01@xjtlu.edu.cn (XJTLU principal supervisor's email address) with a subject line of the PhD project title

Requirements:

The candidate should have a first class or upper second class honours degree, or a master's degree (or equivalent qualification), in Civil engineering or Water conservancy and Hydropower Engineering. Evidence of good spoken and written English is essential. The candidate should have an IELTS score of 6.5 or above, if the first language is not English. This position is open to all qualified candidates irrespective of nationality.

Degree:

The student will be awarded a PhD degree from the University of Liverpool (UK) upon successful completion of the program.

Funding:

The PhD studentship is available for three years subject to satisfactory progress by the student. The award covers tuition fees for three years (currently equivalent to RMB 80,000 per annum) and provides a monthly stipend of 5,000 RMB as a contribution to living expenses. It also provides up to RMB 16,500 to allow participation at international conferences during the period of the award. It is a condition of the award that holders of XJTLU PhD scholarships carry out 300-500 hours of teaching assistance work per year. The scholarship holder is expected to carry out the major part of his or her research at XJTLU in Suzhou, China. However, he or she is eligible for a research



study visit to the University of Liverpool of up to six months, if this is required by the project.

Project Description:

The structural safety of bridges under extreme flood peaks is a significant engineering issue that urgently needs to be solved. This project aims to increase the accuracy of the current numerical methods to simulate the local scour phenomenon of bridge piers under flood peaks. A high-order numerical method in time and space is developed based on the unstructured grids. Large-eddy simulation is used to get the characteristics of local scour and turbulence around the bridge pier with a high Reynolds number. The project will show the dynamic pressure along the bridge pile, the scour topography during scouring. The mechanical of bridge collapse under extreme flood peaks will be revealed.....

For more information about doctoral scholarship and PhD programme at Xi'an Jiaotong-Liverpool University (XJTLU): Please visit

https://www.xjtlu.edu.cn/en/admissions/global/entry-requirements/

https://www.xjtlu.edu.cn/en/admissions/global/fees-and-scholarship

How to Apply:

Interested applicants are advised to email wei.zhang01@xjtlu.edu.cn (XJTLU principal supervisor's email address) the following documents for initial review and assessment (please put the project title in the subject line).

- CV
- Two reference letters with company/university letterhead
- Personal statement outlining your interest in the position
- Proof of English language proficiency (an IELTS score of 6.5 or above)
- Verified school transcripts in both Chinese and English (for international students, only the English version is required)
- Verified certificates of education qualifications in both Chinese and English (for international students, only the English version is required)
- PDF copy of Master Degree dissertation (or an equivalent writing sample) and examiners reports available

Informal enquiries may be addressed to Dr. Wei Zhang (wei.zhang01 @xjtlu.edu.cn), whose personal profile is linked below, http://www.xjtlu.edu.cn/en/faculty/weizhang