

PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Civil Engineering.
Supervisors	Principal supervisor: Dr Xiaonan Tang (XJTLU, Civil Engineering Department) Co-supervisor: Dr Yan Zhou (UoL, Civil Engineering and Design Department)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Study on the effect of partially multi-layered vegetation on open-channel flows (多层植被对明槽水流的影响)
Contact	Please email xiao.tang@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 related fields, particularly preferable in hydraulics, fluid mechanics or water resources. 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 three months, if this is required by the project.

Project Description:

Vegetation plays a very important role in river bank protection, ecological restoration and water environmental protection, etc. Mixed vegetation of different heights widely exists in many natural rivers. Due to the complexity of flow and vegetation interaction, there is a poor understanding of how such vegetation affects flow structure of channels. Understanding the influence of vegetation on flow is of great practical significance for river design and water ecological restoration.

Previously, studies mainly focused on single layer vegetation. However, little study was done on the flow with more realistic multi-layered vegetation, distributed partially in an open channel, which is the aim of this project.

This proposal will conduct an in-depth study on flow characteristics of open-channel flows with multi-layered vegetation by various comparative experiments and analytical methods to establish a method for predicting flow velocity, resistance and channel capacity, along with the understanding of turbulence of vegetated flow. The outcome will advance the core knowledge gap and provide a scientific basis to users.

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

<http://www.xjtlu.edu.cn/en/study-with-us/admissions/entry-requirements>

<http://www.xjtlu.edu.cn/en/admissions/phd/feescholarships.html>

How to Apply:

Interested applicants are advised to email xiao.tang@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. Xiaonan TANG (xiao.tang@xjtlu.edu.cn), whose personal profile is linked below:

<http://www.xjtlu.edu.cn/en/departments/academic-departments/civil-engineering/staff/xiao-tang>