

PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Civil Engineering
Supervisors	Principle supervisor: Dr. Changhyun Jun (XJTLU, Department of Civil Engineering) Co-supervisor: Professor Joon Sik Kim (XJTLU, Department of Urban Planning and Design) Co-supervisor: Professor Neil Macdonald (UoL, School of Environmental Sciences)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Water Sensitive Urban Design for Sustainable Water Resources Management under Uncertainty 水敏性城市设计在不确定条件下可持续水资源管理
Contact	Please email Changhyun.Jun@xjtlu.edu.cn (XJTLU principal supervisor's email address) and copy doctoralstudies@xjtlu.edu.cn 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 Environmental Sciences. 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 3500 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:

With cities getting bigger and climate change threatening to bring more extreme weather, the concept of “water sensitive urban design” has been proposed as the philosophy of innovation. It is defined as a land planning and engineering design approach which integrates the urban water cycle including stormwater, groundwater and wastewater management and water supply, into urban design to minimize environmental degradation and improve aesthetic and recreational appeal. For better adapting the escalating threat of climate change induced hazards, it needs to have a more resilient, less vulnerable urban drainage system for sustainable rainwater management. The focus of this proposed research is placed on the use of probabilistic approaches to analyze the design problems of urban runoff retardation facilities (URRF) and consider environmental issues related to urbanization and climate change as additional design criteria for hydraulic structures in urban areas. It aims at developing a risk-based design framework for optimal design of URRF, which can consider various sources of uncertainty in the design and analysis of hydrosystems. The proposed method and research findings will have strong potential to be of significant value to governments, companies and local communities in China, the United Kingdom and other countries.

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

<http://www.xjtlu.edu.cn/en/admissions/phd/entry-requirements.html>

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

How to Apply:

Interested applicants are advised to email Changhyun.Jun@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)

Informal enquiries may be addressed to Dr. Changhyun Jun (Changhyun.Jun@xjtlu.edu.cn), whose personal profile is linked below,

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