

PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Civil Engineering
Supervisors	Principle supervisor: Dr. Charles Loo (XJTLU, Department of Civil Engineering) Co-supervisor: Dr. Theofanis Krevaikas (XJTLU, Department of Civil Engineering) Co-supervisor: Dr. Isaac Galobardes (XJTLU, Department of Civil Engineering) Co-supervisor: Dr. Steve Jones (UoL, School of Engineering)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Cold-formed steel joist and high strength concrete slab composite system 冷弯型钢托梁与高强混凝土板复合体系
Contact	Please email charles.loo@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 a related area. 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:

Composite beam comprising of a composite concrete slab and a steel joist is quite common in the design of long-span buildings and bridges. It offers many advantages such as improved strength, rapid construction and the steel deck acts as a permanent formwork. This project proposes to develop new improve composite system comprising of but not limited to; high strength concrete slab and cold-formed steel sections. The benefits of such a system is the combination of the performance of both the high strength concrete slab in compression and the lightweight cold-formed steel section in tension. The expected outcomes are more effective composite system for short span application.

A background in numerical modelling and experimental testing is required.

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 charles.loo@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. Charles Loo (charles.loo@xjtlu.edu.cn), whose personal profile is linked below,

<http://www.xjtlu.edu.cn/en/departments/academic-departments/civil-engineering/staff/charles-k-s-loo-chin-moy>