

PhD studentship (Full-time)

Institution	Xi'an Jiaotong-Liverpool University, China
School	School of Design
Supervisors	Principal supervisor: Professor/Dr Krevaikas Theofanis (XJTLU) Co-supervisor: Professor/Dr Jun Xia(XJTLU) Co-supervisor: Professor/Dr Kamperidis Vasislios (UoL)
Application Deadline	20/01/2024
Funding Availability	Funded PhD project (world-wide students)
Project Title	Strengthening of masonry walls subjected to horizontal loads strengthened with pre-stressed Textile Reinforced Mortars (TRMs)
Contact	Please email Theofanis.krevaikas@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 Structural Analysis & Design or Construction materials. 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:

Pre-stressing to rehabilitate masonry structures is a pretty effective technique used to improve the static behaviour of heritage buildings. In the specific proposal, pre-stressed Textile Reinforced Mortars (TRMs) will strengthen solid clay masonry walls subjected to horizontal loads. The experimental campaign will include two types of shear walls having dimensions of 1.5x1.5 m and 1.5x2.5. The walls will be subjected to two types of loads-a quasi-static and a dynamic- while under an initial level of vertical load corresponding to the serviceability limit state. Moreover, the selection for the appropriate type of fibre grid will be based on a performance assessment of TRM pre-stressed strips prepared using three different types of fibres, namely Basalt, Carbon and Glass

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 Theofanis.krevaikas@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 Professor/Dr Krevaikas Theofanis (Theofanis.Krevaikas@xjtlu.edu.cn), whose personal profile is linked below,

<http://www.xjtlu.edu.cn/en/study/departments/design-school/civil-engineering/department-staff/academic-staff/staff/theofanis-krevaikas>