

## PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Health and Environmental Science
Supervisors	<p><i>Please list all the names in the supervisory team. It should be consistent with the information on your approved RDF proposal.</i></p> <p>Principle supervisor: Dr. Zheng Chen (XJTLU, Department of Health and Environmental Science) Co-supervisor: Dr. Sujie Qin (XJTLU, Department of Health and Environmental Science) Co-supervisor: Dr. John Boyle (UoL, Department of Geography and Planning)</p>
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Soil Remediation by Microbial Fuel Cells. 基于微生物燃料电池的土壤修复方法及机理研究
Contact	Please email zheng.chen@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 environmental science-related fields. 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:**

Our group studies the electron transfer among the inorganic minerals and living organisms in the redox gradient zone of wetlands by using microbial fuel cells and start-of-art elemental analytic instruments.

In this project, we are interested in how organic and inorganic pollutants in wetland sediments are degraded/immobilized during intermittently flooded condition, especially with the deployment of microbial fuel cells (MFCs) in sediments. Both of water management and MFCs are able to change the redox processes in the sediments, thus accelerate the OM degradation or alter the element species. We are going to apply the start-of-art techniques developed in our lab to reveal the mechanisms and try to provide novel and feasible solutions to remediate the contaminated soils.

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.....@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.Zheng Chen (Zheng.Chen@xjtlu.edu.cn), whose personal profile is linked below, <http://www.xjtlu.edu.cn/en/departments/academic-departments/environmental-science/staff/zheng-chen>