

PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Electrical and Electronic Engineering
Supervisors	Principle supervisor: Dr. Fei Xue (Xi'an Jiaotong-Liverpool University) Co-supervisor: Dr. Lin Jiang (University of Liverpool, UK); Dr. Shaofeng Lu (Xi'an Jiaotong-Liverpool University)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Study on Key Technologies for Energy-Internet-Oriented Microgrids 面向能源互联网的微网关键技术研究
Contact	Please email fei.xue@xjtlu.edu.cn (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 Electrical Engineering. Evidence of good spoken and written English is essential. The candidate should have an IELTS score of 6.5 or above, or an equivalent qualification, 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). It also provides up to RMB 16,500 to allow participation at international conferences during the period of the award. 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:

Based on Smart Grid, Energy Internet (EI) has been considered the most promising

direction in both academic research and engineering relevant to the energy field in facing challenges from energy crisis and integration of renewable power generation. In the research about EI, microgrids have been widely studied and considered as promising basic units in construction of EI. With regard to the development from conventional power distribution networks to feasible structure of EI, the concept of Virtual Microgrid was proposed as the base to form Local Energy Network (LEN), and then to structure EI by interconnection of multiple LENs. This project will focus on the possible key technologies about Microgrids in development of EI, especially the key topics in partitioning, planning and optimal operation of virtual microgrids.

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 fei.xue@xjtlu.edu.cn (principal supervisor's email address) the following documents and copy doctoralstudies@xjtlu.edu.cn (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 above 6.5 or equivalent is required)
- 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. Fei Xue (fei.xue@xjtlu.edu.cn), whose personal profile is linked below,
<http://www.xjtlu.edu.cn/en/faculty/.....>