

PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Electrical and Electronic Engineering
Supervisors	Principle supervisor: Mark Leach (Xi'an Jiaotong-Liverpool University) Co-supervisor: Yi Huang (University of Liverpool, UK); Co-Supervisor Eng Gee Lim (Xi'an Jiaotong-Liverpool University)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Risk Analysis of Wearable Antenna 可穿戴天线的安全性分析
Contact	Please email doctoralstudies@xjtlu.edu.cn and copy to mark.leach@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 Electronic Engineering, Telecommunication and Electronic Engineering or other related Electronic 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) 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:

Public concern regarding human exposure to electromagnetic radiation has increased with the rapid growth in the use of wireless devices and in particular the very recent and growing interest in wireless wearables. Standards regarding limitations of exposure of the general public to electromagnetic fields have been formed in order to prevent any adverse health effects arising from the use of such devices. Current limits were developed based on mobile phone usage and power absorption in the head. New body centric networks which see antennas placed close to other areas of the body require new models to be created and antenna factors and such as antenna position, bending and human body movement on radiation absorption need to be investigated and integrated into the standards. This project will focus on modelling absorption rates when wearable antennas are placed in commonly encountered locations on the human body for various orientations of the antennas.

Project deliverables include scientific publications and absorption rate modelling and measurement systems. The work is expected to offer a standardised method of modelling and testing antenna designed for on body applications.

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.html>

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

How to Apply:

Interested applicants are advised to email the following documents to Doctoralstudies@xjtlu.edu.cn (please put the project title and primary supervisor's name in the subject line).

- CV
- Two reference letters
- 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. Mark Leach (mark.leach@xjtlu.edu.cn), whose personal profile is linked below,

<http://academic.xjtlu.edu.cn/eee/Staff/mark-leach>