

PhD studentship (Full-time)

Institution	Xi'an Jiaotong-Liverpool University, China
School	School of CHIPS
Supervisors	Principal supervisor: Dr Yinchao Zhao (XJTLU) Co-supervisor: Professor Hao Ruan (JITRI) Co-supervisor: Dr Chun Zhao (XJTLU) Co-supervisor: Dr Munira Raja (UoL)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project
Project Title	Brain-inspired optical computing
Contact	Please email Yinchao.Zhao@xjtlu.edu.cn (XJTLU principal supervisor's email address) or ruanh@jsic-tech.com (JITRI supervisor's email) 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 Optics, Optoelectronics, Microelectronics or Computer Science. Experience in microelectronic technology processes or programming is preferred.

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.

Please note that the joint PhD project is industry-based and the candidate is expected to undertake part of the research at the partner organization in China.

Degree:

The student will be awarded a PhD degree from the University of Liverpool (UK) upon successful completion of the program.

Funding:

This PhD project is a collaborative research project between XJTLU (<http://www.xjtlu.edu.cn>) in Suzhou and JITRI (Jiangsu Industrial Technology

Research Institute) Nanjing Institute of Advanced Laser Technology. The student will be registered as an XJTLU PhD student but is expected to carry out the major part of his or her research at the Institute in Nanjing Institute of Advanced Laser Technology

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). In addition, during the period of undertaking main research at institute in Suzhou, the PhD candidate will be provided with monthly living allowance at a standard 5000 per month by JITRI (Jiangsu Industrial Technology Research Institute) Nanjing Institute of Advanced Laser Technology.

Project Description:

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>

Supervisor Profile:

Principal Supervisor:

Dr Yinchao Zhao received the Ph.D. degree from the University of Liverpool in 2020. Yinchao Zhao is currently a lecturer in the School of CHIPS, Taicang campus, Xi'an Jiaotong-Liverpool University. Her research interest involves low-dimensional functional materials and batteries.

JITRI co-supervisor:

Dr. Hao Ruan, Professor of Shanghai Institute of Optics and Fine Mechanics and Nanjing Institute of Advanced Laser Technology. He received his Bachelor's and master's degrees from the Wuhan University of China, Ph.D. degree from Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China. He is the co-founder of JITRI Intelligent Integrated Circuit Design Technology Institute. He has been engaged in the research and development of optoelectronic technology for 25 years; the current research fields are photonic chips, brain-like optical artificial intelligence chips, etc. The former editorial board member of Frontiers of Optoelectronics. He has published nearly 100 academic papers in important core journals at home and abroad, has invented 24 granted patents, responsible for and participated in the formulation of 6 national industry standards. Awarded the Shanghai Optoelectronic

Industry Contribution Award in 2007.

How to Apply:

Interested applicants are advised to email Yinchao.Zhao@xjtlu.edu.cn (XJTLU principal supervisor's email address) or ruanh@jsic-tech.com (JITRI supervisor's email) 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