

PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Electrical and Electronic Engineering
Supervisors	Principal supervisor: Dr. Min Chen (XJTLU, School of Advanced Technology) Co-supervisor: Prof. Guohua Fan (JITRI, Innovation Center for Advanced Materials and Technology) Co-supervisor: Prof. Yuyuan Zhao (UoL, School of Engineering)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Structure Design and Fabrication of Laminated Metal Materials 层状金属材料的设计和制备
Contact	Please email min.chen@xjtlu.edu.cn and copy to ghfan@njtech.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 Mechanical Engineering, Material Engineering or Engineering-related major with strong interest in mechanics and material science.

Evidence of good spoken and written English is essential. The candidate should have an IELTS score of 6.5 (with a minimum of 5.5 in each component) 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

This PhD project is a collaborative research project between XJTLU (<http://www.xjtlu.edu.cn>) and JITRI (Jiangsu Industrial Technology Research Institute) Innovation Center for Advanced Materials and Technology (<http://www.jitri.org/>), both of which locate at Suzhou, China. 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. Tripartite agreement will be signed among student, XJTLU and institute.

The PhD scholarship 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 no less than 5000 RMB as a contribution to living expenses. Additional meal and travel allowance may be provided by the Institute.

Project Description

The strategy of structural design has been proved as an effective approach to overcome the strength-ductility trade-off dilemma of laminated metal materials. This project focuses on structural design and fabrication of the laminated materials, and investigates the effects of

structural parameters and fabrication processes on the mechanical properties of laminated metal materials by simulation methods and some experimental tests. The special focus will be paid on the elastic/plastic and fracture processes of laminated metal materials using advanced characterization methods (such as micro CT and digital image correlation) and plasticity simulation technique. The appropriate numerical models and algorithms are expected to be developed to describe the constitutive law of the material and the plastic behaviour of the structure.

How to Apply

Informal enquiries may be addressed to Dr. Min Chen (min.chen@xjtlu.edu.cn), please find Dr. Chen`s personal profile [here](#).

Applicants are required to prepare the following documents to upload onto the [online application system](#) to submit formal application.

- [Research proposal](#)
- Full academic transcripts of university studies and grading system (both bachelor and master)
- University degree certificate or enrollment statement (both bachelor and master)
- Verification report of degree certificate (Chinese students only, both bachelor and master)
- A copy of Master dissertation (or an equivalent writing sample) and examiners reports if applicable
- Certificates of English language qualifications
- Personal statement
- Two formal reference letters
- A copy of your passport (for international students only)

For more information about the application of doctoral scholarship and PhD programme at Xi'an Jiaotong-Liverpool University (XJTLU), please visit:

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