

PhD studentship (Full-time)

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| Institution | Xi'an Jiaotong-Liverpool University, China |
| School | School of Intelligent Manufacturing Ecosystem |
| Supervisors | Principal supervisor: Dr Sze-Hong Teh (XJTLU) Co-supervisor: Professor Eng Hwa Yap (XJTLU) Co-supervisor: Dr Heba Lakany (UoL) |
| Application Deadline | Open until the position is filled |
| Funding Availability | Funded PhD project (world-wide students) |
| Project Title | Energy-efficient motion control of a turtle-like biomimetic amphibious robot |
| Contact | Please email Szehong.Teh@xjtlu.edu.cn with a subject line of the PhD project title. The principal supervisor's profile is linked here: http://www.xjtlu.edu.cn/en/departments/academic-departments/entrepreneur-college-taicang/staff/szehong-teh |

Requirements:

The candidate should have a first class or upper second class honours degree, or a master's degree (or equivalent qualification), in Mechanical or Mechatronics Engineering. 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 99,000 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. The living stipend may be supported by Research Assistantship from industrial projects and the payment follows up the university policy.

Project Description:

This research project aims to develop an energy-efficient motion control system for a novel biomimetic turtle robot designed and developed at XJTLU. The system is to implement the multi-degree-of-freedom control of the turtle robot limbs for realizing its swimming and diving motion in water, its crawling motion on land, and the smooth transition between crawling and swimming motion in amphibious environment in an optimized manner.

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

<https://www.xjtlu.edu.cn/en/admissions/global/entry-requirements/>

<https://www.xjtlu.edu.cn/en/admissions/global/fees-and-scholarship>

How to Apply:

Interested applicants are advised to email Szehong.Teh@xjtlu.edu.cn the following documents for initial review and assessment (please put the project title in the subject line).

- CV
- Two formal reference letters
- Personal statement outlining your interest in the position
- Certificates of English language qualifications (IELTS or equivalent)
- Full academic 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