

Dear PhD studentship (Full-time)



Institution	Xi'an Jiaotong-Liverpool University, China
Department	Department of Civil Engineering
Supervisors	Principal supervisor: Prof Chee Seong Chin (XJTLU, Department of Civil Engineering) Co-supervisor: Dr. Jun Xia ..(XJTLU, Civil Engineering Department) Co-supervisor: Dr. Di Sarno, Luigi..(UoL, Civil Engineering Department)
Application Deadline	Open until the position is filled
Funding Availability	Funded PhD project (world-wide students)
Project Title	Chinese title: 基于固体废弃物的人工骨料研究 English title: Characterisation of Artificial Aggregates Made from Solid Wastes
Subject Areas	Civil & Structural Engineering
Contact	Please email Chee.Chin@xjtlu.edu.cn (XJTLU principal supervisor's email address) with a subject line of the PhD project title

Requirements:

Academic qualification: The studentship is competitive and the candidate would be expected to demonstrate academic excellence and outstanding research potential. Candidate will have a first class honours undergraduate degree, or a distinction master's degree (or equivalent qualification), in civil engineering, material science or an appropriate field of study.

Language qualification: 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 80,000 per annum) and provides a monthly stipend of 5,000 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 or research 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:

Concrete is commonly known as the most widely used construction material worldwide for infrastructure development. However, the rapidly developing world and the massive evolution of urban development have caused a massive surge in environmental pollution and depletion of raw materials. By making an optimised utilisation of industrial waste and by-products to make concrete is no doubt a significant step toward sustainable construction. This project aims to characterise the development of artificial aggregates made from solid wastes which would include but not limited to coal combustion residuals, sludge from water treatment, red mud and phosphogypsum. The physical, chemical mechanical properties and durability of the newly engineered aggregates will be evaluated to ensure their suitability for civil engineering applications. Various treatment procedures will also be explored aiming at further enhancing the performance of the aggregates.

For more information about doctoral scholarships and PhD programmes 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>

How to Apply:

Interested applicants are advised to email Chee.Chin@xjtlu.edu.cn (XJTLU principal supervisor's email address) 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)

Informal enquiries may be addressed to Prof Chee Seong Chin (Chee.Chin@xjtlu.edu.cn), whose personal profile is linked below,

<https://www.xjtlu.edu.cn/en/departments/academic-departments/civil-engineering/staff/chee-chin>

Appendix: Subject Areas

Please kindly be noted that subject areas are added to increase the visibility of your project on www.findaphd.com. *Please choose up to 10 subject areas and put them down in the Subject Areas column on the first page of this document.*

Biological & Medical Sciences

- Agricultural Sciences
- Biochemistry
- Bioinformatics
- Biomedical Engineering
- Biophysics
- Biotechnology
- Botany / Plant Science
- Cancer / Oncology
- Cell Biology / Development
- Dentistry
- Ecology & Conservation
- Endocrinology
- Evolution
- Food Science / Nutrition
- Genetics
- Immunology
- Marine Biology
- Medical / Biomedical Physics
- Medical / Clinical Science
- Medical Imaging
- Microbiology
- Molecular Biology
- Neuroscience / Neurology
- Obstetrics, Gynaecology & Reproduction
- Palaeobiology
- Parasitology
- Pathology
- Pharmacology / Toxicology
- Pharmacy / Pharmaceutics
- Physiology & Sports Science

Engineering

- Acoustics
- Aeronautical, Maritime and Transport Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil & Structural Engineering
- Electrical & Electronic
- Energy
- Environmental Engineering
- Manufacturing
- Materials Science
- Mechanical Engineering
- Nanotechnology
- Nuclear Engineering
- Petrochemical Engineering
- Semiconductors
- Software Engineering
- Telecommunications

Maths & Computing

- Applied Mathematics
- Bioinformatics
- Computational Chemistry
- Computer Science & IT
- Data Analysis
- Information Science
- Mathematics
- Operational Research
- Software Engineering
- Statistics

Humanities

- Psychology & Psychiatry
- Public Health & Epidemiology
- Structural Biology
- Veterinary Medicine
- Virology
- Zoology / Animal Science

Chemical Sciences

- Agricultural Chemistry
- Analytical Chemistry
- Biochemistry
- Chemical Engineering
- Chemical Toxicology
- Computational Chemistry
- Electrochemistry
- Environmental Chemistry
- Food Chemistry
- Geochemistry
- Inorganic Chemistry
- Macromolecular Chemistry
- Materials Science
- Organic Chemistry
- Pharmaceutical Chemistry
- Physical Chemistry
- Synthetic Chemistry

Physical Sciences

- Applied Physics
- Astrophysics
- Atmospheric Physics
- Atomic Physics
- Biophysics
- Condensed Matter Physics
- Fluid Dynamics
- Geophysics
- Low-temperature Physics

- American Studies
- Anthropology
- Archaeology
- Architecture & the Built Environment
- Asian Studies
- Classics & Ancient History
- Communication, Cultural & Media Studies
- European Studies
- Geography
- History
- Middle East & African Studies
- Modern Languages & Linguistics
- Philosophy
- Theology & Religious Studies

Social Science & Health

- American Studies
- Anthropology
- Architecture & the Built Environment
- Asian Studies
- Development Studies
- Economics
- Education
- European Studies
- Gender & Sexuality
- Geography
- Health Sciences
- History
- Middle East & African Studies
- Modern Languages & Linguistics
- Nursing, Midwifery & Allied Health Professions
- Philosophy
- Political Science & International Studies
- Psychology
- Public Health & Epidemiology
- Social Work, Social Policy & Administration

- Materials Science
- Medical / Biomedical Physics
- Metrology
- Nuclear Physics
- Optical Physics
- Particle Physics
- Plasma Physics
- Radiation
- Semiconductors
- Theoretical Physics

Earth Sciences

- Agronomy & Soil Science
- Atmospheric Physics
- Climatology & Climate Change
- Ecology & Conservation
- Ecotoxicology & Pollution
- Environmental Chemistry
- Environmental Engineering
- Environmental Science
- Geochemistry
- Geography
- Geology
- Geophysics
- Hydrology
- Meteorology
- Oceanography
- Palaeontology

- Sociology
- Sports, Recreation & Leisure Studies
- Town & Country Planning

Business & Finance

- Accounting & Finance
- Business & Management
- Economics
- Marketing
- Tourism & Hospitality

Law

- Law

Arts

- Architecture & the Built Environment
- Art & Design
- Classics & Ancient History
- Drama, Dance & Performing Arts
- English
- History
- Music