


# MSC CIVIL ENGINEERING

## 土木工程硕士

XJTLU | MSC  
CIVIL ENGINEERING

### CAREERS

Graduates from this programme are well prepared for roles such as consultant or site manager in the construction industry, as well as similar positions in government, and in water management and infrastructure facilities. Graduates can also find employment as structural engineers, geotechnical engineers, hydraulic and hydrologic engineers, quantity surveyors and quality managers. Alternatively, some graduates may wish to specialise in the areas that they are really passionate about and move on to further PhD studies.

 <b>START DATE</b> September 2023 (full time) September 2023 or Spring 2024 (part time)	 <b>ATTENDANCE</b> Full time / Part time
 <b>SCHOOL</b> Design School	 <b>LOCATION</b> Suzhou
 <b>DURATION</b> 18 months (full time) / 36 months (part time)	

### MODULES

Our graduates gain highly theoretical and professional specialised knowledge and are able to solve technical problems of great complexity. Within the context of the programme's modules, the students learn to assess and evaluate technical problems and implement simple yet efficient techniques, adopting a professional approach.

#### COMPULSORY MODULES

- SUSTAINABLE TECHNOLOGY AND BUILDING MATERIALS
- SUSTAINABLE DRAINAGE SYSTEMS
- CRITICAL STATE SOIL MECHANICS
- ADVANCED CONSTRUCTION MANAGEMENT
- SUSTAINABLE ENGINEERING WITH TIMBER
- ENVIRONMENTAL ENGINEERING AND MANAGEMENT PRACTICE
- ADVANCED SIMULATION OF SUSTAINABLE STRUCTURAL SYSTEMS
- ADVANCED STRUCTURAL DESIGN
- DISSERTATION

#### PROGRAMME COST

120,000

#### APPLICATION DEADLINE

June 15, 2023

Xi'an Jiaotong-Liverpool University  
西交利物浦大学

## MSC CIVIL ENGINEERING

The MSc Civil Engineering programme incorporates the contemporary key elements of engineering design in the built environment.



For information on entry requirements and how to apply, scan the QR code or follow the link below to visit the programme website

<https://www.xjtlu.edu.cn/en/study/masters/civil-engineering>

General queries can also be made to the Programme Director of MSc Civil Engineering, Dr. Guobin Gong, with the email address of [guobin.gong@xjtlu.edu.cn](mailto:guobin.gong@xjtlu.edu.cn), and the contact number of +86 18914096535.



### KNOWLEDGE AND SKILLS

By the time you graduate from the MSc Civil Engineering programme, you will have:

- Independent critical thinking skills, which are key for the development of professional engineering insight
- A solid understanding of the theoretical aspects of the recent advances in civil engineering fields
- The ability to work in complex professional environments and find innovative solutions for technical problems

### WHY STUDY CIVIL ENGINEERING AT XJTLU?

- Graduate from a programme accredited by one of the world's most powerful professional bodies, the Joint Board of Moderators (JBM), comprised of the Institution of Civil Engineers (ICE), the Institution of Structural Engineers (IStructE), the Institute of Highway Engineers (IHE), and the Chartered Institution of Highways and Transportation (CIHT)
- Learn in an international environment with highly engaged staff who are experienced in both academia and industry
- Earn a University of Liverpool degree that is internationally recognised by the world, as well as by the Chinese Ministry of Education



## 土木工程硕士

土木工程理科硕士课程包括了建筑环境领域最主要的一些非常现代的工程设计要素。在硕士课程的学习过程中,学生不仅能够扩展知识面而且能够在工程结构、施工管理、土力工程和新型建筑材料方面更加深入的学习、掌握更加深厚的技能。在学习过程中,学生既可以学习到相关方面的理论知识,又可以锻炼如何用专业的方法解决工作中遇到的技术问题。



扫描二维码  
获取更多专业信息

<https://www.xjtlu.edu.cn/zh/study/masters/msc-civil-engineering>

如有疑问,可咨询土木工程硕士专业负责人**龚国斌**博士。  
邮箱: guobin.gong@xjtlu.edu.cn  
手机: +86 18914096535。



### 毕业生所获知识与技能

本专业毕业生将具备以下能力:

- 作为专业工程洞察力的关键,培养独立进行批判性思考的技能
- 充分了解土木工程理论领域最近的发展
- 在复杂的专业环境中工作,并找到技术创新解决方案的能力

### 专业优势

- 在世界最权威的专业机构—英国工程委员会监管机构 (Joint Board of Moderators, JBM) 认证的专业中进行学习
- 师从在学术界和业界都具有丰富经验的高度敬业的员工,在国际化环境中进行学习
- 毕业生可获得中国教育部认可和世界认可的英国利物浦大学学位

### 就业

毕业生可以从事的职业包括建筑行业咨询师、施工管理、以及政府部门,比如水资源管理和公共设施建设管理。更具体地说,本专业的毕业生能够从事结构工程师、土力工程师、水力和水文工程师、工程造价工程师以及质量监控经理等职位。也有些毕业生会选择在感兴趣的领域继续读博士深造。

### 课程

本专业毕业生会学到全面深入的理论知识以及专业知识,能够解决复杂的技术问题。学生会学习如何评估问题,并且如何运用简单有效的技术解决问题,这种方式对于学生的未来职业发展是非常必要的。

#### 核心课程

- 可持续技术及建筑材料
- 可持续排水系统
- 临界状态土力学
- 高级施工管理
- 可持续结构系统高级模拟
- 使用木材的可持续工程
- 环境工程和管理实践
- 高级结构设计
- 毕业论文

#### 学费

共计12万

#### 申请截止日期

2023年6月15日

## MASTERS

### MSC CIVIL ENGINEERING 土木工程硕士

The MSc Civil Engineering programme incorporates all of the contemporary key elements of engineering design in the built environment.

During the programme, you will develop a high level of knowledge and skills in the fields of structural engineering, construction management, geotechnical engineering and innovative construction materials.

The MSc Civil Engineering programme embraces research-led teaching, where the students are actively engaged by accomplishing technical tasks, either in the form of group work or individual projects.

Comprising two semesters of taught modules, this programme also includes undertaking a research dissertation during the third semester. The programme is accredited by the Joint Board of Moderators (JBM) as meeting the requirements for Further Learning for a Chartered Engineer (CEng), for candidates who have already acquired a partial CEng accredited undergraduate first degree.

土木工程硕士项目包括了建筑环境领域最主要的一些非常现代的工程设计要素。

在硕士项目的学习过程中,学生不仅能够扩展知识面而且能够在工程结构、施工管理、土力工程和新型建筑材料方面更加深入的学习、掌握更加深厚的技能。

本专业采用以研究为导向的研讨式教学方式,学生还有机会与团队一起完成指定项目或者独立完成技术课题。

本专业学位获得了英国工程委员会监管机构 (Joint Board of Moderators, JBM) 认证,专业课程满足了申请英国特许工程师CEng认证所需的“继续学习”课程要求(申请人需先获得部分CEng认证的本科第一学位)。