

MSC

SUSTAINABLE CONSTRUCTION

可持续建筑硕士

XJTLU | MSC
SUSTAINABLE CONSTRUCTION

CAREERS

Graduates from this programme are well prepared for careers in the environmental construction and management sectors, governmental regulatory agencies and environmental consultancies. Graduates go on to find employment in positions such as green infrastructure engineer, water resources engineer, construction site engineer, environmental consultant engineer and sustainable technology developer.

Alternatively, some graduates may wish to specialise in the areas that they are really passionate about and move on to further PhD studies. The MSc Sustainable Construction programme can be used as Further Learning, the final element of the educational base for being a chartered engineer (CEng).



START DATE

September 2023 (full time)
September 2023 or Spring 2024 (part time)



ATTENDANCE

Full time / Part time



SCHOOL

Design School



LOCATION

Suzhou



DURATION

18 months (full time) / 36 months (part time)

MODULES

COMPULSORY MODULES

- SUSTAINABLE TECHNOLOGY AND BUILDING MATERIALS
- SUSTAINABLE DRAINAGE SYSTEMS
- SUSTAINABLE ENERGY AND ENVIRONMENT
- INTEGRATION OF ENERGY STRATEGIES IN THE DESIGN OF BUILDINGS
- SUSTAINABLE ENGINEERING WITH TIMBER
- ADVANCED SIMULATION OF SUSTAINABLE STRUCTURAL SYSTEMS
- ENVIRONMENTAL ENGINEERING AND MANAGEMENT PRACTICE
- SUSTAINABLE URBAN PLANNING STRATEGIES
- DISSERTATION

PROGRAMME COST

120,000

APPLICATION DEADLINE

June 15, 2023



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

MSC SUSTAINABLE CONSTRUCTION

The MSc Sustainable Construction programme provides students with technologically advanced knowledge, problem-solving skills and a comprehensive understanding of the key aspects of sustainability in civil engineering construction.



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/msc-sustainable-construction>

General queries can also be made to the Programme Director of MSc Sustainable Construction, Dr. Pow Seng Yap, with the email address of PowSeng.Yap@xjtlu.edu.cn, and the contact number of +86 18362594457.



KNOWLEDGE AND SKILLS

By the time you graduate from the MSc Sustainable Construction, 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 engineering, construction and sustainability fields
- Knowledge of the latest sustainability technologies and strategies and how to apply them in building design
- The ability to work in complex professional environments and find innovative solutions for technical problems

WHY SHOULD I STUDY SUSTAINABLE CONSTRUCTION AT XJTLU?

- Learn in an innovative and multicultural environment, which integrates professionally accredited education with modern training practices, delivered in state-of-the-art laboratory facilities and educational platforms
- Gain a multidisciplinary perspective, with modules delivered by the departments of Civil Engineering, Architecture and Design, Urban Planning and Design, and Electrical and Electronic Engineering
- 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)
- Study an advanced-level curriculum enhanced by practical applications, specialised research seminars and industrial training
- Earn a University of Liverpool degree that is internationally recognised by the world, as well as by the Chinese Ministry of Education



可持续建筑硕士

可持续建筑硕士专业能够为学生提供先进的技术知识、解决问题的技巧以及全面解读土木工程关键领域，掌握土木建造可持续性全方位的知识结构。本专业旨在培养学生对当今及未来可持续发展战略的关键意识、如何将其与土木工程行业相融合以及如何从现有和新兴科技中找到可能的解决方案。



扫描二维码
获取更多专业信息

<https://www.xjtlu.edu.cn/zh/study/masters/msc-sustainable-construction>

如有疑问，请咨询可持续建筑硕士专业负责人 **Pow Seng Yap** 博士。

邮箱: PowSeng.Yap@xjtlu.edu.cn

手机: +86 18362594457



毕业生所获知识与技能

本专业毕业生将具备以下能力:

- 独立的批判性思维能力，这是专业工程洞察力发展的关键
- 理解工程、建筑和可持续发展领域最新进展的理论知识
- 了解最新的可持续发展技术和战略，以及如何将其应用于建筑设计
- 能够在复杂的专业环境中工作，并为技术问题找到创新的解决方案

专业优势

- 本专业具备独特、创新和国际化的学习环境，把通过专业资格认证的教育方式和先进的教学实践相结合，并辅以设施先进完善的实验课程和教学平台，帮助学生更加有效地学习
- 通过学习土木工程、建筑、城市规划和电子电气等学科关于可持续性实践的相关知识，学生可以获得跨专业的视角，全面充分地了解可持续性实践在土木建造过程中的应用
- 本专业设有全面深入的课程体系，并辅以实践应用、专业方向研究指导课程和工业实践等内容
- 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

本硕士专业毕业生在环境工程和管理部门、政府监管部门、可持续性技术、环境顾问等方向具备非常强大的就业竞争力。同时，毕业生具备了对可持续建筑教育领域的社会价值观的认知，可从事绿色基础设施工程师、水资源工程师、施工现场工程师、环境咨询工程师以及可持续技术开发人员等职业。也有些毕业生会选择在感兴趣的领域继续读博士深造。

本硕士专业可满足“继续学习”的课程要求，即成为英国特许工程师 (CEng) 最终合格专业教育的深造平台。

课程

核心课程

- 可持续技术和建筑材料
- 可持续排水系统
- 可持续能源和环境
- 能源策略在建筑设计中的集成
- 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
- 可持续城市规划策略
- 毕业论文

学费

共计12万

申请截止日期

2023年6月15日

MSC SUSTAINABLE CONSTRUCTION 可持续建筑硕士

The MSc Sustainable Construction programme gives you technologically advanced knowledge, problem-solving skills and a comprehensive understanding of the key aspects of sustainability in civil engineering construction.

During your studies, you will gain a critical awareness of current and future challenges associated with the intervention of sustainability strategies and their integration in the civil engineering sector, as well as prospective solutions from existing and emerging scientific technologies.

The programme comprises two semesters of taught modules, assessed by coursework and examination, followed by a research dissertation during your 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.

可持续建筑硕士专业能够为学生提供先进的技术知识、解决问题的技巧以及解读土木工程建设关键领域、掌握土木建造可持续性的全方位知识结构。

本专业旨在培养学生对当今及未来可持续发展战略的关键意识、如何将其与土木工程行业相融合，以及如何从现有和新兴科技中找到可能的解决方案。

本专业全日制课程周期为18个月，由两个学期的课程教学（教学评估方式为课程作业和考试）和最后一个学期的研究论文构成。所有课程的授课老师均来自于专门研究可持续性和可持续建筑的国际化学术团队。

本课程经联合评审委员会 (JBM) 认证，符合特许工程师 (CENG) 进一步学习的要求，适用于已经获得部分 CENG认证的本科一等学位的申请人。