

BENG INDUSTRIAL DESIGN 工业设计

XJTLU | BENG
INDUSTRIAL DESIGN

CAREERS

You will be well prepared to work in design, and research and development departments of multinational enterprises or as design consultants and freelance designers. Because of the cross-cultural focus of the programme, you are well-positioned to work internationally.

You will also gain a solid foundation for postgraduate study or other professional careers in areas that emphasise conceptual thinking, communication skills and the cross-cultural appreciation of creativity, innovation processes, user needs and behaviours and consumer markets.

START DATE
September 2021

2+2 STUDY
Available

DURATION
Three or four years

LOCATION
Suzhou

ATTENDANCE
Full time

SCHOOL
Design School

QUALIFICATION
XJTLU
BEng Industrial Design

University of Liverpool
BEng Industrial Design

ACCREDITATION
Chartered Society of
Designers (at XJTLU)

MODULES

YEAR ONE

UK degrees are three years long whereas in China they are four, therefore we do accept students with certain qualifications directly into Year Two, which is the start of the main academic programme. Most students, however, enter into Year One, which provides students with a range of interesting modules, language classes and core skills for your degree. In Year One, BEng Industrial Design students take modules including calculus (MTH013), multivariable calculus (MTH008), physics (PHY004) and design expressions (2D) I and II (IND001 and IND002).

YEAR THREE

STUDIO DESIGN PRACTICE
STUDIO: CONCEPT GENERATION & INTERACTION
USER-FOCUSED RESEARCH
ELECTRONICS IN DESIGN APPLICATIONS
DESIGN FOR MANUFACTURABILITY
ERGONOMICS
STUDIO: INDUSTRY COLLABORATION

YEAR TWO

STATICS AND SOLIDS
COMPUTER AIDED DESIGN AND MODELING (3-D)
DIFFERENTIAL EQUATIONS FOR ENGINEERS
STUDIO: HUMAN NEEDS
MATERIALS FOR DESIGN
HISTORY OF INDUSTRIAL DESIGN
DESIGN COMMUNICATION
INTRODUCTION TO HUMAN COMPUTER INTERACTION
FLUID MECHANICS AND THERMODYNAMICS

YEAR FOUR

PROFESSIONAL PRACTICE
STUDIO DESIGN PRACTICE
CULTURE AND THEORY
DESIGN FOR SUSTAINABILITY
DESIGN STRATEGY AND ETHICS
FINAL YEAR PROJECT

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

BENG INDUSTRIAL DESIGN

China's economy is rapidly changing from traditional manufacturing-intensive to innovation-intensive. In this process, industrial design education plays a vital role in establishing a pool of innovative talents to achieve this goal. XJTLU's industrial design profession is highly internationalized, absorbing and utilizing best practices and the latest development trends. As an interdisciplinary major, industrial design incorporates a large number of skills and theories in mechanical engineering, electrical and electronic, software engineering, anthropology, etc. Through the study of this major, students have the opportunity to get in touch with local and multinational companies in the Suzhou Industrial Park, while gaining practical design experience.



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/undergraduate/industrial-design>

KNOWLEDGE AND SKILLS

By the time you graduate from the BEng Industrial Design you will have:

- Ability to use creative skills for the development and production of products, consumer goods and interactive designs and furniture design.
- Understanding how technology innovation and adaptive systems can be integrated into future products
- User research processes to explore and design for user-experience in different markets and consumer contexts
- Awareness of cross-cultural aspects of designing for the Chinese market and other contexts
Knowledge of materials structure and specification for high volume manufactured products
- Marketing and practical model-making skills in presenting design development processes.
- Visual Language and Form development to build presentations through development processes.

WHY SHOULD I STUDY INDUSTRIAL DESIGN AT XJTLU?

- Learn how to interpret user values into visually creative design solutions, for product design, furniture design, interaction design and spatial contexts.
- Integrate professional prototyping and manufacturing processes with the latest 3D printers, CNC-machines, adaptive systems and sensors for interactive product design applications.
- Participate in collaborative projects and/or internship opportunities at national and multinational companies
- Study in Suzhou, one of China's most multicultural cities, which provides a unique perspective based on world leading high tech companies and its rich cultural heritage
- Earn two degrees: an XJTLU degree from the Chinese Ministry of Education and a globally recognised degree from the University of Liverpool, a member of the Russell Group of leading UK universities.



工业设计

中国的经济正在飞速地从传统的制造密集型向创新密集型转变。在此过程中，工业设计教育在建立创新人才库、从而实现这一目标的过程中起着至关重要的作用。西浦工业设计专业高度国际化，吸收并利用最佳实践和最新发展趋势。作为跨学科专业，工业设计融合了机械工程、电子电气、软件工程，人类学等方面的大量技能及理论。通过该专业的学习，学生有机会接触苏州工业园区内的本地企业和跨国企业，同时获得实际的设计经验。



扫描二维码
获取更多专业信息

<https://www.xjtlu.edu.cn/zh/study/undergraduate/industrial-design>

知识与技能

通过工业设计专业的学习，毕业时学生将具备：

- 了解物质产品、消费品、交互产品和服务的设计与开发中的技术方法和创新技能；
- 了解影响产品和服务设计的社会、文化与历史内涵；
- 了解中国及其他地区的跨文化设计；
- 具备创新精神、创造能力和理性思维；
- 掌握用户研究、可视化和建模的技能；
- 掌握对物质产品和交互服务的设计能力；
- 掌握从概念的构思到成型的整个设计流程。

专业特色

- 学习如何将用户需求转化为具有良好可行性的设计方案；
- 探索最先进的实验设备，如3D打印机、激光切割机、数控机床等；
- 有机会加入本地与跨国企业的工业设计合作项目中，获得企业实习的机会；
- 学校坐落于苏州，是中国最具多元文化特征的城市之一，其国际领先的高新技术企业与丰厚的传统文化底蕴为工业设计专业学习提供了独特的最佳视角；
- 毕业生将同时获得中国教育部认可的西交利物浦大学学位和国际认可的利物浦大学学位。

就业

该专业的跨文化特色使得学生充分具备在国际环境中工作的竞争力，毕业生将有能力在跨国企业的设计、研究和开发部门任职，或从事设计顾问、独立设计师等职业。

毕业生还将具备继续学习深造的坚实基础，以及在重视抽象思维、沟通能力、跨文化创意与创新、用户需求、用户行为与市场等领域开启职业生涯的能力。

课程

第一学年

在英国，本科阶段学习学制三年，而中国本科阶段学制为四年。因此，对于已获得相应学时、证书的学生，在我校可以直接升入二年级进行专业学习；大多数学生则是进入一年级学习，包括众多有吸引力的课程，语言课程以及专业学习相关的核心技能学习。工业设计系大一学生需要修习的课程包括微积分，多变量微积分，物理学，设计表达(2D) I 和 II。

第三学年

人机工程学
聚焦用户研究
工程力学与设计
可制造性设计
产品语义学与美学
创意、方法和理论
工作室II:概念生成与互动
工作室III: 产业协作

BENG INDUSTRIAL DESIGN 工业设计

As an Industrial Designer, your vision leads high volume manufacturing, starting out with original 'one off' concept designs which can then be developed into high volume production. By taking advantage of the wide range of innovative materials and workshop processes at XJTLU, specialist products and furniture can be designed with manufacturing and industry in mind. This considerably increases the potential opportunities for XJTLU designers, to combine a range of design studio practices with knowledge of materials and industry processes, supported with recent investments rapid prototyping and design studio technologies for products and interaction design.

The Chinese economy is rapidly transforming markets worldwide with creative ideas that are 'designed in China' for international consumers. Industrial Designers from XJTLU are in high demand. The Design Studio-Practice BEng Industrial Design programme provides a creative approach that integrates visual design practice with materials and technology, user interaction, socio-cultural context and innovative business models.

The BEng Industrial Design uses the best practices and latest development trends in design. You have the opportunity to work in local and international companies based in China within an international context. This mix of both academic and professional expertise together with specialist technical resources, forms a rich experience to establish your profile as an Industrial Designer.

工业设计师融合远见与创意，将概念转化为成功的产品与服务。试想一下，增强现实App可以帮助新一代的家庭设计他们未来的汽车，抑或是智能外骨骼机器人帮助行动不便的老人自主行走等等无限可能。

中国的经济正在飞速地从“中国制造”转变为“中国创造”。在此过程中，对于设计师的需求量将会大大增加。本专业的学习以工作室为中心，培养学生分析问题及综合解决问题的能力，成为能兼顾工程与人文的新一代工业设计师。作为一门跨学科专业，工业设计融合了工程、设计、人机交互、商学、人类学和美学等多方面的理论与实践。

西交利物浦大学工业设计专业具备高度国际化的特色，吸收并利用最佳的实践活动和最新的发展趋势，赋予学生融合中西文化优势、实现创新设计的能力，并让学生有机会接触本地企业和跨国企业，通过实际的企业合作设计项目获得实践经验。

开始时间 2021年09月	学院 设计学院
2+2 留学模式 可选	教学形式 全日制
学制 四年	学位证书 西交利物浦大学 工业设计 利物浦大学 BEng Industrial Design
学习地点 苏州	专业认证 英国特许设计师协会 (在西交利物浦大学)

第二学年

计算机辅助设计与建模(3D)
工业设计史
设计传达
工程
静力学与固体
材料学导论
流体力学与热力学
人文社科类英语语言与学习技能
工作室I: 人类需要-规模与比例
人际互动导论

第四学年

稳定性设计
专业实践
可持续设计
服务设计
设计策略与伦理学
文化与理论
毕业设计