XJTLU ENTREPRENEUR COLLEGE (TAICANG)

WHY NOW?

In a time of uncertainty, one sure thing is that education is facing enormous global challenges. There is a need to better align universities with business innovation in a fast changing industrial landscape, create the right talents for tomorrow's employers, and create 'SMART' knowledge-driven and informed leadership. The XJTLU Entrepreneur College (Taicang) has taken up that challenge full on, and invites you to be part of its journey.

SYNTEGRATIVE EDUCATION

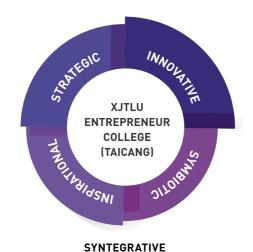
Syntegrative education is an innovative educational model targeted to produce international high-end applied talents with profound disciplinary knowledge and practical industry attainments as well as cross-cultural leadership, management and entrepreneurship skills aiming at competitiveness and employability enhancement.

In Short: Interest-oriented lifelong learning, innovation and entrepreneurial education.

LIST OF PROGRAMMES AND SCHOOLS

SCHOOL	PROGRAMME	INDUSTRY PARTNER
Al and Advanced Computing	BEng Data Science and Big Data Technology	Sugon
Intelligent Manufacturing Ecosystem	BEng Intelligent Manufacturing Engineering	Haier
Intelligent Finance and Business	BSc Intelligent Supply Chain	AMT
Robotics	BEng Intelligent Robotics Engineering	Siasun
Internet of Things	BEng Internet of Things Engineering	Eolane
Cultural Technology	BA Arts, Technology and Entertainment	CCMG
CHIPS	BEng Microelectronic Science and Engineering*	SSCCM, SIMIT

^{*} Subject to UoL approval.



BEng INTELLIGENT MANUFACTURING ENGINEERING

XJTLU ENTREPRENEUR COLLEGE (TAICANG)

WHAT IS IT?

XJTLU Entrepreneur College (Taicang) is an exciting unique forward thinking 21st century solution to meeting the education challenges created by the 4th Industrial Revolution. Part of XJTLU, the most successful joint venture institution in China, the philosophy of XJTLU Entrepreneur College (Taicang) is to create unique industry themed schools through equal partnership with well-known and innovative businesses, delivered using the university Syntegrative Education model.



BEng INTELLIGENT MANUFACTURING ENGINEERING

Following XJTLU's exciting and innovative Syntegrative Educational Model, this programme is an equal collaboration between the University and its industry partner, Haier Group, at the School of Intelligent

Manufacturing Ecosystem in XJTLU
Entrepreneur College (Taicang).

Students completing the degree programme will graduate equipped with the skills to pursue a career in intelligent manufacturing engineering, an emerging industry driven by rapid technological advancements.

Not only that, graduates from this unique programme will meet the needs of a wide range of employers both within and outside the manufacturing sector as the educational model's unique focus on entrepreneurship and innovation provides you with the skills and abilities to think like an entrepreneur, providing the foundation for you to go on to become one of the leaders for tomorrow's new industries.

WHY STUDY INTELLIGENT MANUFACTURING ENGINEERING AT XJTLU ENTREPRENEUR COLLEGE (TAICANG)?

- Be part of a unique educational experience, preparing you to work in fast paced, rapidly changing, smart technology driven industries
- Benefit from XJTLU's strategic location in Taicang's High-Tech Development Zone with rapidly expanding technology-driven industries
- Learn through practical application, using your knowledge and skills in solving real problems in research and industry settings
- Learn from industry experts as part of the unique industry-themed school's partnerships with leading businesses
- Gain valuable entrepreneur and leadership skills through studying on the unique contemporary entrepreneur modules that are part of the degree, giving you a competitive edge in whatever career path you choose
- Study in purpose-built, state-of-the-art facilities in XJTLU's new Taicang campus (due to open in 2022)
- Graduate with world class qualifications, including 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

WHAT YOU WILL LEARN

By the time you graduate from the programme, you will have:

- an understanding of manufacturing processes and systems, materials, mechanics and dynamics, electronics, and artificial intelligence applications
- comprehensive knowledge of manufacturing management, project management and innovation concepts and how to apply them in a practical setting
- high-level communication, interpersonal, problemsolving and analytical skills that are transferable across a range of careers and industries.



CAREERS AND FURTHER STUDY

Graduates from this programme are well prepared for roles such as manufacturing process expert or systems engineer, and will be capable of taking responsibility for the technical operation of an intelligent production line. The programme also provides a solid foundation for further studies in the field of mechanical engineering, and manufacturing management.



西浦创业家学院(太仓)

西浦创业家学院(太仓)特征

- 按行业设置学院,强化跨专业教育和行业训练。大学根据未来社会需要,选择了对未来人类发展具有重大影响的若干关键行业,通过与该领域国内外著名企业深度合作,联合创建相关行业学院。
- 创建学习超市,支持终身学习,提供线上线下教育资源和设施, 支持和帮助学生及社会各界人士实现人生兴趣的终生追随。
- 打造开放式的创新工厂、研发群落、创业与企业港、企业与社会联盟,帮助支持学生和社会各界人士创意与创新的实现。
- 将通识教育、专业教育、行业教育与管理和创业教育融合,增强学生未来社会的适应能力、职业发展的驾驭力和终身学习的能力。
- 在课程模块上将主修专业与辅修专业融合,并在大一至大三期间,嵌入每年200小时的行业训练。学生毕业时,除获得英国利物浦大学和西交利物浦大学的学士学位外,还可额外获得创业创新辅修证书、行业实习实训证书。

融合式教育模式

通过大学与企业、行业和社会的深度合作模式,将通识教育、专业教育、行业教育、创业教育、管理与领导力教育融合起来,培养具有国际视野、能够站在人工智能和机器人的肩膀上驾驭未来新发展的行业精英甚或业界领袖。

■ 与企业深度合作,将学习、实习、在岗训练、研究、创业、促进产业发展融合,不仅利于学生提前数年进入职场,而且为学生职业生涯发展搭建了通向未来行业、追随梦想的平台;同时也为企业合作伙伴引领未来新行业提供人才、技术、研发、商业模式和企业孵化的支持。

行业学院与专业设置

	行业学院	本科专业	合作企业
	人工智能与先进计算学院 Al and Advanced Computing	数据科学与大数据技术 BEng Data Science and Big Data Technology	中科曙光
	智造生态学院 Intelligent Manufacturing Ecosystem	智能制造工程 BEng Intelligent Manufacturing Engineering	海尔集团
	产金融合学院 Intelligent Finance and Business	供应链管理 BSc Intelligent Supply Chain	上海企源
	智能机器人学院 Robotics	机器人工程 BEng Intelligent Robotics Engineering	中科新松
	物联网学院 Internet of Things	物联网工程 BEng Internet of Things Engineering	欧朗中国
	文化科技学院 Cultural Technology	艺术与科技 BA Arts, Technology and Entertainment	中国文化传媒集团
	芯片学院 CHIPS	电子科学与技术* BEng Microelectronic Science and Engineering*	正科芯云, 上海微系统所

^{*}以中国教育部和利物浦大学审批结果为准。



西浦创业家学院(太仓)

西浦创业家学院(太仓)以融合和共生为主题,通过融合式教育培养行业精英,并进行面向未来的"教育新模式、大学新概念、校园新形态"三大实验,以期为中国和世界未来的高等教育提供西浦方案。





BEng 智能制造工程

智能制造工程以培养综合型、国际化人才为目标,综合机械工程、电气工程、工业工程专业最优秀的课程,以智能制造装备系统、智能工厂生产系统运营、管理和维护中设计的科学技术问题为研究对象,综合应用自然科学、工程技术、社会科学、人文科学等相关学科的理论、方案和技术,研究智能制造系统规划与设计、智能制造信息系统等关键性问题。

本专业由西浦与企业合作伙伴海尔集团共同开发,面向国家先进制造业的科技发展趋势,培养适应国际科技前沿和国家战略发展需求,符合社会和智能制造行业发展需要,熟悉国际规则和惯例,掌握智能制造的基础理论和专业知识,具备较高水平的人文素养,具有从事先进制造领域的工作技能,富于创新精神和实践能力以及国际沟通能力的高素质复合应用型人才。

为什么选择西浦创业家学院(太仓) 智能制造工程专业:

- 体验创新型融合式教育模式,为你在飞速发展、复杂变化、智能技术驱动的未来世界和行业中成为职业高手做好准备
- 在以行业为主题、与国内外知名企业共建的学院中, 享有同时向专业学者和行业专家学习的机会
- 通过注重实践和应用的教学模式,培养你在研发和 真实行业环境中解决实际问题的知识和技能
- 专业设置中嵌入创新创业辅修模块,额外获得领导力 提升和创新创业训练
- 享受按照世界未来大学理念打造的西浦太仓新校园 (预计2022年投入使用)
- 受益于太仓高新区良好的区位优势和成熟的外资产 业载体
- 毕业生可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

知识与技能

通过智能制造工程专业的学习, 毕业生将具备以下知识和 技能·

- 学习制造过程与系统、材料学、力学、动力学、电气工程、人工智能应用等;
- 掌握制造管理、项目管理、创新创意方面的知识以及如何在实践中灵活运用;
- 优良的沟通、交流、分析和解决问题的技能。



升学与就业

本专业毕业生具有从事先进制造领域的工作技能,是富于创新精神和实践能力,以及具备较强国际沟通能力的高素质复合应用型人才。

毕业生也可以在本科阶段学习的基础上, 继续到海内外顶尖大学攻读智能制造工 程领域的硕士学位。

