



Introduction

The China-UK Low Carbon College (LCC) of Shanghai Jiao Tong University, established in May 2017, is a pioneering joint initiative in the field of low carbon between two world renowned universities – Shanghai Jiao Tong University and the University of Edinburgh. As the first low carbon college in China, LCC aims to build up a talent database of world-leading experts in the low carbon fields, lead fundamental research in low carbon disciplines, and offer executive training services for governments and enterprises.

LCC provides graduates with a range of professional and transferable skills that enable them to pursue successful careers in the fields of energy and environment, including climate change consulting, carbon trading, energy-related or environment-related project development and business, policy or regulatory roles within government and NGOs.



China-UK Low Carbon College

Degree Program

Master's Programs

Energy and Power Engineering (Low Carbon Energy)

Resources and Environment (Low Carbon Environment)

PhD Programs

Energy and Power Engineering

Environmental Science and Engineering

English Curriculum

LCC is home to the first English-taught master's program in low-carbon studies in China. All of our programs are taught in English.

Distinctive Courses:

- Sustainable Development Goals of the United Nations
- Climate Economics
- Life-cycle Assessment and Carbon Accounting
- Carbon Markets and Green Finance
- Industrial Ecology
- Low Carbon Management and AI-Assisted Decision-Making
- AI + Energy Internet
- AI+Intelligent Control Technology in Energy System
- Carbon Capture, Utilization and Storage
- Carbon Neutrality Policy and Technology
- Infrastructure for Net-zero Carbon Cities
- Theory and Technology of Resource Circularity

Double Master's Programs

LCC offers dual-degree master's programs with leading universities, including the University of Edinburgh (UK), Monash University (Australia), Kyushu University (Japan), and Pusan National University (South Korea).

Key programs with the University of Edinburgh include:

- MSc Climate Change Finance and Investment
- MSc Climate Change Management
- MSc Energy, Society & Sustainability
- MSc Sustainable Energy Systems
- MSc GeoEnergy

Research Centers

Low Carbon Environment Research Center

Low Carbon Energy Research Center

Carbon Finance and Carbon Management Research Center

Career Development

LCC has achieved a 100% employment rate over the past six years.

Our graduates typically pursue careers in:

- Sustainability and climate-related consulting
- Energy market analysis and trading
- Low carbon portfolio management
- Project development in energy and environmental sectors
- Policy or regulatory roles with Government or NGOs

Graduate Profile



João Graça Gomes

- Head of Research and Development, Sino-Portuguese Centre for New Energy Technologies (2021-2024)
- PhD Student, Imperial College London (2024-present)

Master in Energy and Power Engineering

"Studying at the Low Carbon College was one of my most remarkable experiences — the interdisciplinary education and international exposure empowered me to build a strong career in renewable energy project development."

Industrial Partners



500+
Industry Partners



240+
Industry Supervisors



36
Internship & Employment Bases



Student Experience



Interactive Learning



Lab Experience



Field Trip



Cultural Event

Contact Information

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View our programs