



天津大学
Tianjin University

OFFICE OF
INTERNATIONAL
COOPERATION

2023 TJU Online Summer School

Sustainable Development and Global Competency



INTRODUCTION

To promote the ideas and technology to achieving sustainable development and to cultivate global citizens with deep knowledge and a sense of responsibility, Tianjin University will hold the 2023 TJU Online Summer School from August 21 to 31. The theme will be “Sustainable Development and Global Competency”.

The program offers 4 modules introducing the latest developments in the related area by first-rate professors and researchers. This online program will provide students access to expertise from a variety of fields, the opportunity to interact with experts and international students from around the world, and the chance to experience TJU’s academic atmosphere without having to travel.

We welcome you to join us!

Module 1	Global Governance and International Mobility
Module 2	New Energy Technologies and Renewable Energy Technologies
Module 3	Carbon Finance, Carbon Economy and Environmental Regulation Policies
Module 4	Sustainable Natural Resource Governance

Target Students

- Very interested in related areas
- Full-time students from TJU partner universities and TJU
- Good command of English listening and speaking



Organizer

Office of International Cooperation
<http://ico.tju.edu.cn/en/>

Special Thanks to



University of
Sydney



University
College London



York University



University of
California, Berkeley



Linköping
University



Princeton
University



University of
Waterloo

SCHEDULE

August 21

COURSE

14:45–15:20

Opening Ceremony

15:30–17:00

New Energy and Carbon Neutral Strategies under Environmental Economics

Prof. Lorenzo Lotti
(University College London)

M3

August 22

COURSE

10:00–11:30

Research Fundamentals: Creativity, Writing for Non-English Native English Speakers, and Reviewing

Prof. Christ Bell
(York University)

M1

14:00–15:30

Sustainability and Global Collaboration

Prof. Archie Johnston
(The University of Sydney)

M1

August 23

COURSE

9:00–10:00

How Could the SDGs Inform a Transformative Model of Global Competence Education in the University?

Prof. Qiang Zha
(York University)

M1

14:00–15:30

Relationship between Higher Education and the Sustainable Development Goals (SDGs)

Prof. Anthony Welch
(The University of Sydney)

M1

August 24

COURSE

9:00–10:30

Lithium–organic batteries

Prof. Yunhua Xu
(Tianjin University)

M2

10:30–12:00

Design and Synthesis of New Energy Materials and Their Applications

Prof. Rui Zhang
(Tianjin University)

M2

14:00–15:30

Aqueous Zinc–based Battery

Prof. Cheng Zhong
(Tianjin University)

M2

15:30–17:00

Advanced Electrocatalysts for oxygen reduction

Prof. Ji Liang
(Tianjin University)

M2

August 25

COURSE

9:00–10:30

TBC

Prof. Xianguo Li
(University of Waterloo)

M2

16:00–17:30

Selected Research Methods in Management Science and Engineering

Prof. Ou Tang
(Linköping University)

M3

August 28

COURSE

10:00–11:30

Carbon Neutralization Pathways and Technologies

Prof. Jason Ren
(Princeton University)

M4

14:00–15:30

How to Achieve Low Carbon at the Early Design Stage: Green Retrofit Decision Making towards Integrated Performance Optimization

Prof. Hongwei Yang
(Tianjin University)

M3

August 29	COURSE		
10:00–11:30	Carbon Market and Green Finance Development in China	Prof. Zhongguo Lin (Tianjin University)	M3
14:30–16:00	R-CELLS: A Solar House Prototype developed by TEAM Tianjin University	Prof. Wei Yang (Tianjin University)	M3
August 30	COURSE		
10:00–17:30	Symposium 1: Environmental Safety and Sustainable Development in Agriculture Symposium 2: From Low Carbon to Carbon Neutral Cities — Widening the Contribution of Universities		M4
August 31	COURSE		
9:00–10:30	Will Water Be the ‘Oil of the 21st Century’? A Quest for Sustainable Water Management in China and Worldwide	Prof. Slav Hermanowicz (University of California, Berkeley)	M4
15:30–17:30	Graduation Ceremony		

*** UTC/GMT+8 Time**

HIGHLIGHTS

Module 1: Global Governance and International Mobility



Prof. Lorenzo Lotti (University College London)
SAssociate Professor (Teaching) in Economics of Energy and the Environment
Research Areas : Organization Studies, Construction of Justice and Morality



Prof. Archie Johnston (The University of Sydney)
Dean of the Faculty of Engineering and Information Technologies at the University of Sydney
Research Areas : Environmental Fluid Mechanics and Water Quality



Prof. Qiang Zha (York University)
Associate Professor, Interim Director of York Centre for Asian Research
Research Areas : Chinese and East Asian Higher Education, International Academic Relations

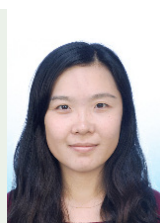


Prof. Anthony Welch (The University of Sydney)
Professor of Education
Research Areas : National and International Policy and Practice

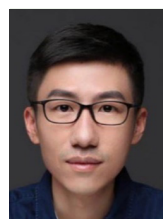
Module 2: New Energy Technologies and Renewable Energy Technologies



Prof. Yunhua Xu (Tianjin University)
Professor of School of Materials Science and Engineering, Tianjin University
Research Areas : Energy Storage and Conversion, Battery Materials and Devices



Prof. Rui Zhang (Tianjin University)
Assistant to Dean at School of Architecture, Tianjin University
Research Areas: Ecological City and Architecture, Green-productive City, Sustainable Community



Prof. Cheng Zhong (Tianjin University)
Professor of the School of Materials Science and Engineering
Research Areas : Advancedenergy Materials and Battery Electrochemistry



Prof. Ji Liang (Tianjin University)
Professor of School of Materials Science and Engineering, Tianjin University
Research Areas : Carbon-based Functional Materials for Electrochemical Energy Storage and Electrocatalysis



Academmician Xianguo Li (University of Waterloo)
Professor and Research Chair at the University of Waterloo
Research Areas : Fuel Cell Technology, Liquid Fuel Atomization and Spray

Module 3: Carbon Finance, Carbon Economy and Environmental Regulation Policies



Prof. Ou Tang (Linköping University)
Professor of Production Economics at Linköping University, Sweden.
Research Areas : Inventory Modelling, Manufacturing Planning and Control Systems, Closed Loop Supply Chains



Prof. Zhongguo Lin (Tianjin University)
Associate Professor in Department of Finance, Tianjin University
Research Areas : Corporate Finance and Asset Pricing.



Prof. Wei Yang (Tianjin University)
Vice Dean, Director of the Center for International Cooperation
Research Areas : Building Life Cycle Assessment and Design, the Sustainable Evolution of the Built Environment



Prof. Hongwei Yang (Tianjin University)
Associate Professor in School of Architecture, Tianjin University
Research Areas : Simulation-based Green Building, Green Retrofit Design, Algorithm-driven Green Building Design



Prof. Lorenzo Lotti (University College London)

Associate Professor (Teaching) in Economics of Energy and the Environment

Research Areas : Organization Studies, Construction of Justice and Morality

Module 4: Sustainable Natural Resource Governance



Prof. Jason Ren (Princeton University)

Professor of Civil and Environmental Engineering and the Andlinger Center for Energy and the Environment

Research Areas : Water–Energy Nexus



Prof. Slav Hermanowicz (University of California, Berkeley)

Professor of the Graduate School at UC Berkeley

Research Areas : Biological Water and Wastewater Treatment Processes

IMPORTANT INFORMATION

Application

Submit your application form at <https://www.wjx.top/vm/OZpYcCe.aspx#>, or scan the QR code to submit.



Application Deadline

August 15

Language

English

Venue

Zoom Meeting (meeting ID and password will be sent via email)

Cost

Free to students from TJU partner institutions

Contact Information

For any inquiries, please contact:

Ms. HE Shengnan, Office of International Cooperation, Tianjin University

Email: acnet_engtech@tju.edu.cn



OVERVIEW OF TIANJIN UNIVERSITY

Tianjin University (TJU) is the first modern university in China, founded on October 2, 1895, and possessing a distinct strength in engineering. Since its inception, the university has been an academic leader in research and education, living up to its motto of “Seeking Truth from Facts”. TJU is equipped with experienced faculty and has distinctive disciplinary features. It is committed to constantly improving its quality of education and level of scientific research in an effort to build itself as a world-class university. The latest ESI shows that 3 disciplines rank in the world’s top 1%. TJU has graduated over 60 academicians of the Chinese Academy of Sciences (CAS) and Chinese Academy of Engineering (CAE), and over 50 university presidents around the world.

Global engagement stands at the forefront of TJU’s agenda. Strategic partnerships have been forged with 257 universities, research institutes and multinational companies in 50 countries and regions. The joint school with the Georgia Institute of Technology and joint education programs with the National University of Singapore are highly illustrative. TJU initiated the ASEAN–China Network for Cooperation and Exchanges among Engineering and Technology Universities (ACNET–EngTech), a consortium comprised of 11 top universities from China and 15 from ASEAN countries. In the realm of international cooperation, student mobility has been greatly emphasized, with over 120 programs covering exchange, articulation, internships, and co-supervision at the undergraduate and postgraduate levels.

The university offers 81 degree programs and 506 courses taught in English, with 11 programs accredited by organizations such as IChemE, CTI, UIA and AMBA. 235 foreign experts have joined TJU’s faculty over the years, including five recipients of the Chinese Government Friendship Award and one Nobel Prize winner. Hosting its first batch of international students in the 1920s, TJU, home to more than 20,000 international students from over 140 countries/regions has been among the most popular study destinations in China.

