



2022 TJU-CHEMICAL ENGINEERING ONLINE SUMMER PROGRAM

Chemical Engineers work in defining new processes. The innovations that chemical engineers help create cut across many aspects of our lives, from alternative energy, environment protection, pharmaceuticals, food production, materials to sustainability in all fields. This August, the Tianjin University (TJU) School of Chemical Engineering and Technology (SCET) offers a three-day on-line summer program for international students, who are keen to learn more about chemical engineering. Through a variety of seminars, we aim to provide insights into our school, explain degree and career options, current research and industrial developments and the Chinese culture.



About Tianjin University and the School of Chemical Engineering and Technology

Tianjin University, founded in 1895 as Peiyang University, is the first modern university in China and a National Key University that is directly administered by the Ministry of Education of China. In 1959, TJU became one of the first National Key Universities, and subsequently, among the first group of universities included in Project 211/985, and as well as, the Double First Class Universities.

School of Chemical Engineering and Technology has a long and significant history with TJU, yet continue to be thoroughly modern, vibrant and innovative. The Chemical Engineering Discipline can be traced back to 1925 when Peiyang University, the Predecessor of Tianjin University established an Industrial Chemistry Hall. Renowned chemical experts were attracted to teach here and the chemical engineering discipline began to take shape. Through generations of hard works, TJU SCET has made great progresses and developed into the top school for Chemical Engineering in China. For four consecutive rounds since 2003, our Chemical Engineering Discipline is consistently ranked No. 1 in China by the Ministry of Education of China. We are also the first Chemical Engineering School in China to be accredited by IChemE at Master Level since 2008. TJU SCET has also achieved the National Teaching Achievement Award for Higher Education (1st Class) for five successive rounds since 2001.



About the Program

Theme: Chemical Engineering for a Sustainable Future

Learning outcomes:

1. Find out more about TJU and SCET
2. Get to know what is Chemical Engineering and how it contributes to a better world
3. Understand the frontier knowledge and researches of Chemical Engineering
4. Learn more about studying at TJU and living on campus
5. Receive a certificate of attendance from TJU SCET

Fee: Free

Date: August 20-22, 2022

Online Platform: VOOV Meeting Platform

Meeting ID and link will be emailed to registered applicants on nearer date.



Program

Day 1, August 20	Time	Activity	Instructor	Title
	9:30-9:35	Opening Remarks	Ma Xinbin	Dean, Professor
	9:35-10:05	Introduction of School of Chemical Engineering and Technology, Tianjin University	tbc	tbc
	10:05-10:35	Green Chemical Technology for One-Carbon Feedstocks	Zhang Sheng	Professor
	10:35-11:05	Membranes for Versatile Separations	Liu Xinlei	Professor
	11:05-11:35	Crystallization Science and Technology: from Scientific Frontier to Engineering Practice	Gao Zhenguo	Associate Professor
	11:35-12:00	Introduction of iGEM Tianjin	Meng Wenlu	Undergraduate Student
	1:30-3:30	Examples of Virtual Simulation and On-Site Experiment of Chemical Engineering	Xiao Xiaoming	Senior Engineer
	3:30-4:00	Industrial Revolution 4.0-Does it Matter for Chemical Engineers	Chin Sim Yee	Professor
	4:00-4:30	A Glimpse of Chemical Engineering from the Perspective of Biomedical Engineering	Zhang Yumiao	Professor
Video Conference Group Photo				

Day 2, August 21	Time	Activity	Instructor	Title
	9:30-11:00	The Amazing Chemical Products-----ETHANOL	Qi Xiangjuan	Senior Engineer
	11:00-11:30	Introduction of Research Group on Chemical Reaction	Xin Feng/Wang Fumin	Professor
	11:30-12:00	Understanding of Microwave-Induced Hot-Spot Behaviour for Innovation of Chemical Industrial Applications	Gao Xin	Professor
	1:30-2:00	Chem-E-Car Competition: A Journey of Experiment and Innovation	TJU-AICHE Student Chapter	Undergraduate Student
	2:00-2:30	Catalysts and Processes Development for Efficient Light Alkane Dehydrogenation	Pei Chunlei	Professor
	2:30-3:00	Perovskite-Based Optoelectrical Devices:From Materials to Applications	Zhang Fei	Professor
	3:00-3:30	tbc	Sira Srinives	Assistant Professor
	3:30-4:30	Chinese Culture	Yin Xiaojing	Professor
	4:30-5:00	Interpretation of International Student Admission Policy	Liu Wenwei	Director of Admission Office
Video Conference Group Photo				

Day 3, August 22	Time	Activity	Instructor	Title
	9:30-10:00	From Atom to Chemical Plant: the Multi-Scale Simulation in Chemical Engineering	Chen Yifei	Associate Professor
	10:00-10:30	OLED&QLED for Display Application	Liu Hongli	Associate Professor
	10:30-11:00	Designing Eco-Functional Redox Conversions Integrated in Energy and Environmental Photo(electro)catalysis	Lou Shi Nee	Associate Professor
	11:00-11:30	Crystallization in Pharmaceutical Industry	Tang Weiwei	Lecturer
	11:30-12:00	Chemical Engineering Innovation & Entrepreneurship for Public Health	Li Shuangyang	PhD Student
	1:30-2:00	Functional Polymers for Advanced Technologies	Feng Yakai	Professor
	2:00-2:15	International students' life in Tianjin University	Suleiman Gasim Sebit Ahmed	Foreign PhD Student
	2:15-2:45	Overview of Functional Food Research in China and Abroad	Xue Zhaohui	Associate Professor
	2:45-3:15	Ultrathin Nanoporous Membranes for Energy-Efficient Purification	He Guangwei	Associate Professor
Video Conference Group Photo				
Closing Remarks				

Requirements

The online summer program will be delivered in English mode. Participants are required to attend the full program to obtain the certificate of attendance.

How to Apply

Application Deadline: 25 July 2022.

1. Please fill out the online application form by scanning the QR code, or log in to the following website:
<https://www.wjx.top/vm/h4q8Psk.aspx>



2. Please download and email the complete application form and a scanned copy of your student ID card to the following email addresses:
tju_chemeng@126.com & wangml@tju.edu.cn
Selections will be made before 30 July. Successful applicants will receive a registration confirmation before 10 August.

Contact Information

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