

STUDY TRIPS FOR ENGAGEMENT AND ENRICHMENT (STEER)

STEER CHONGQING & CHENGDU

Information is accurate as of March 2024.

Programme Theme:	Exploring How Renewable Energy Can Save Our Planet
Programme Location	Chongqing, Chengdu, China
Programme Dates	17 to 28 June 2024 (12 days)
Application Deadline	31 March 2024
No of Placements	42

ESTIMATED COST OF PARTICIPATION																		
1	Programme Fee	<p>The programme fee of S\$2,988 includes:</p> <ul style="list-style-type: none"> • Accommodation in a hotel (twin-sharing) • Local transportation for planned activities • Lectures, Workshop • Industrial visits • Cultural Immersion activities • Meals during major occasions <p>The programme fee does not include:</p> <ul style="list-style-type: none"> • Return flights (SIN → CKG, TFU → SIN) 																
2	Projected Expenditure	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Breakdown of Costs</th> <th style="text-align: left;">Estimated Cost</th> </tr> </thead> <tbody> <tr> <td>Programme fee</td> <td>S\$2,988</td> </tr> <tr> <td>Airline Ticket</td> <td>S\$450 – S\$800</td> </tr> <tr> <td>Accommodation</td> <td>Included in the prog fee</td> </tr> <tr> <td>Ground Transfers</td> <td>Included in the prog fee</td> </tr> <tr> <td>Personal expenses (food, souvenirs, etc)</td> <td>S\$300</td> </tr> <tr> <td>Total</td> <td>S\$3,738 – S\$4,088</td> </tr> <tr> <td>Daily Expenses</td> <td>Click here (Chongqing) Click here (Chengdu)</td> </tr> </tbody> </table>	Breakdown of Costs	Estimated Cost	Programme fee	S\$2,988	Airline Ticket	S\$450 – S\$800	Accommodation	Included in the prog fee	Ground Transfers	Included in the prog fee	Personal expenses (food, souvenirs, etc)	S\$300	Total	S\$3,738 – S\$4,088	Daily Expenses	Click here (Chongqing) Click here (Chengdu)
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3	Financial Aid Available	<p>You should have enough monetary funds for the entire duration of the STEER programme. Your decision to participate in the NUS STEER programmes should not be dependent upon confirmation of financial assistance.</p> <p>First-time participants of the NUS STEER programme are eligible to apply for the NUS STEER Award valued at S\$1,500. Applicants have to accept the offer to the STEER Chongqing & Chengdu programme before submitting their application for the award on EduRec-GE.</p> <p>In addition to the STEER Award, participants may consider the following financial aid options to fund their STEER:</p>																

STUDY TRIPS FOR ENGAGEMENT AND ENRICHMENT (STEER)

		<ul style="list-style-type: none"> • Opportunities Enhancement Grant (Singaporeans only) • Overseas Student Programme Loan (Singaporeans only) • PSEA Ad-Hoc Withdrawal (Singaporeans only) <p>Please note that if you are successful with any financial aid, the funds may only be disbursed to you during or after the completion of the STEER programme.</p>
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PROGRAMME DETAILS

4	Academic Content	<p>1. Lectures – Renewable Energy and How It Impacts the Environment Principal Lecturer: <i>Emeritus Professor Seah Kar Heng, Department of Mechanical Engineering, NUS College, NUS</i> Alternative Lecturer: <i>Associate Professor Loh Wai Lam, Department of Mechanical Engineering, Programme Manager, Centre for Offshore Research & Engineering, College of Design and Engineering, NUS.</i></p> <p><u>Overview:</u> The lectures explore how renewable energy can solve the current energy and environmental problems the world is facing, as well as the various roadblocks that need to be overcome. Key topics include energy conservation, alternative and renewable energy, climate change, carbon footprint, decarbonisation, pollution, deforestation, and other sustainability issues</p> <p><u>Learning outcomes:</u></p> <ul style="list-style-type: none"> ○ Students will become acutely aware of the earth’s sustainability issues, capable of understanding current energy and environmental problems and their impacts on life, health, economy, and international relations. ○ Students will realise that their generation holds the key to solving these problems by the use of renewable energy instead of conventional fossil fuels. <p>2. Workshops – History of Solar Cells and Next-generation PV Technology Principal Lecturer: <i>Associate Professor Sun Kuan, School of Energy & Power Engineering at Chongqing University</i></p> <p><u>Overview:</u></p> <ul style="list-style-type: none"> ○ Fundamentals about photovoltaics ○ History of photovoltaic technology ○ Third-generation of photovoltaics ○ Recent development of perovskite solar cells <p>3. Company Visits & Field Trips</p> <ul style="list-style-type: none"> ○ <i>Company visit: SERES Automotive LiangjiangSmart Factory</i> SERS is a leading technology-driven manufacturer focusing on
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STUDY TRIPS FOR ENGAGEMENT AND ENRICHMENT (STEER)

		<p>renewable energy vehicles. Listed on the A-share market and among China’s top 500 enterprises. SERS excels in the research, development, manufacturing and service of renewable energy vehicles, core electrification components (battery, electric drive and electronic control), traditional automobiles and core assemblies</p> <p>The company’s Liangjiang Smart Factory, operational since 2019, exemplifies Industry 4.0 standards, producing the AITO WENJIE M5. With cutting-edge automation and a focus on technology innovation, SERES leads in electrification, range extension, electronic architecture, and the DE-I intelligent electric drive platform.</p> <ul style="list-style-type: none"> ○ <u>Company visit: HG Group PV Manufacturing Base</u> Haoge Solar Energy Company specializes in the design, development and installation of high-quality solar panels and photovoltaic systems. The company’s products are widely used in residential, commercial and industrial applications to generate clean energy and reduce dependence on fossil fuels. The company’s state-of-the-art manufacturing facilities include advanced production lines, testing labs and quality control systems. Its team of experienced engineers work closely with customers to ensure that each project meets its specific needs and requirements. ○ <u>Field Trip: Dujiangyan Irrigation Systems</u> Dujiangyan Irrigation System was constructed in 227 B.C. by Li Bing, governor of Shu Prefecture over 2,200 years ago. It is not only the earliest water resource multiple utilization project in China but also the only and the oldest remaining of such in the whole world. The irrigation system consists of headwork and dense irrigation canals. The headwork consists of the Fish-Mouth Water Dividing Dike, Flying Sand Spillway and the Bottle-Neck Water Inlet. The three parts work together perfectly to solve the problems of automatic water dividing, automatic sand reduction, automatic irrigation, etc. Dujiangyan Irrigation Systems diverts the water of the Minjing River into the vast area of Chengdu Plan, breeding Chengdu Plain as the Land of Abundance, giving Chengdu people a laid-back attitude towards life and offering the Chinese people a sense of security, originated from this bountiful and beautiful rear land of China. <p>4. Cultural Immersion</p> <ul style="list-style-type: none"> ○ Twin River Night Cruises ○ Planning Exhibition Gallery ○ Hongyadong
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STUDY TRIPS FOR ENGAGEMENT AND ENRICHMENT (STEER)

		<ul style="list-style-type: none"> ○ Sichuan Opera ○ Hotpot ○ Giant Panda ○ Wuhouci ○ International Finance Square ○ Jinsha Site Museum
5	Eligibility Requirements	<p>To participate in the STEER Chongqing & Chengdu program, you must:</p> <ol style="list-style-type: none"> 1. Be enrolled as a full-time undergraduate student 2. Be at least 18 years old 3. Be on time and participate in all programme activities <p>Graduate students wishing to participate in the programme may be considered on a case-to-case basis and will not be eligible for any financial subsidies. Interested students will need to contact Ms Tianxing at tianxing@nus.edu.sg</p>
6	Accommodation	<p>Participants will be put up at the Gaoke E-home Hotel* (Address: No. 16, Huashan South Road, Liangjing New Area, Chongqing, China)</p> <p>*to be confirmed</p>
7	Application Procedure at NUS	<p>Apply via the NUS Education Records System (EduRec - GE) (setup ID: 02766) by 31 March 2024.</p> <p>Applying through EduRec-GE will allow you to apply for financial aid/loans and enable GRO to contact and assist you in times of crisis/emergency while you are overseas.</p> <p>With an official application through EduRec-GE, you are covered by the NUS Travel Blanket Insurance. Besides, GRO can also provide you with supporting letters for visa application.</p>
8	Confirmation of participation	<p>You have to accept the offer for STEER Chongqing & Chengdu on EduRec-GE and pay the programme fee (S\$2,988) by 8 April 2024 to confirm your participation in the programme.</p>
9	Course Mapping	<p>STEER Chongqing & Chengdu is not eligible for course units.</p>

ADDITIONAL INFORMATION

10	Visa Application	<p>Singapore passport holders are exempted from visa requirements for a stay of up to 30 days in China.</p> <p>Non-Singaporeans are responsible for finding out whether they are required to apply for a visa to China. Please visit the homepage of the China Visa Application Centre at: https://www.visaforchina.cn/SGP2_EN/</p>
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STUDY TRIPS FOR ENGAGEMENT AND ENRICHMENT (STEER)

11	Travel Advisories	Visit the MFA website for travel advisories on various countries from the Singapore government.
12	Student Insurance	<p>NUS will continue to offer NUS Travel Insurance for approved study abroad programmes such as STEER.</p> <p>For more information on:</p> <ul style="list-style-type: none"> - NUS Student Travel Insurance Cover, click here <p>Students are responsible for ensuring that they have sufficient travel insurance coverage for the entire duration of their trip (inclusive of travel) and are advised to review the insurance coverage/policy to ensure that they meet their needs. Students may purchase additional health and/or travel insurance from their preferred agent.</p> <p>A copy of your insurance certificate can be obtained via myPortal@NUS.</p>
13	Contact Information	<p>Questions about the STEER programme?</p> <ul style="list-style-type: none"> - Contact Ms Tianxing: tianxing@nus.edu.sg



17 - 28 JUNE 2024

**STUDY TRIPS FOR ENGAGEMENT AND ENRICHMENT (STEER)
STEER CHONGQING & CHENGDU 2024
(CHINA)**

Theme: "Exploring how Renewable Energy Can Save our Planet"

Global climate change poses significant threats to ecosystems, human health and socio-economic stability. Conventional energy sources are finite and generate greenhouse gas emissions that impact the environment.

Renewable energy sources such as solar, wind, hydropower and biomass play a critical role in addressing these challenges. They offer a sustainable and clean alternative to meeting the world's energy demand.

Participants embarking on this two-week programme will have the opportunity to:

- Participate in **specialised lectures** delivered by NUS Professor(s) focusing on renewable energy technologies, policies, implementation strategies and how renewable energy can solve existing energy and environment issues.
- Attend **academic workshops** conducted by professors from renowned Institutes of Higher Learning (e.g. Chongqing University) and gain insights into the development and policies of renewable energy in China
- Partake in **customised industry visits & field trips** to renewable energy-related companies and facilities in Chongqing and interact with industry professionals and gain insights into the practical applications of renewable energy solutions.
- Immerse yourself in the rich **cultural heritage** of Chongqing and Chengdu through visits to historical sites, and museums. Experience the vibrant traditions, cuisine and hospitality of the 'Mountain City and the 'Land of Abundance'.

**Application period:
Now till 31 March 2024**

**Programme is open to all
full-time NUS
undergraduate students**

**Receive a STEER Award
valued at S\$1,500 (first-
time award recipient)**

**Programme Fee:
S\$2,988
(Before applicable
grants and subsidies)**

**For more information
visit:**

<https://www.nus.edu.sg/gro/global-programmes/special-global-programmes/steer>

**Contact:
Ms Tianxing
tianxing@nus.edu.sg**

APPLY NOW

EduRec-Global Education

QR Code

