

2023~2024

Taiwan Experience Education Program

Internship in Taiwan



TEEP

About TEEP

In 2015, Taiwan's Ministry of Education launched the Taiwan Experience Education Program (TEEP) to encourage greater participation of international students in short-term professional internship projects organized by Taiwanese universities and colleges. TEEP enables international students to gain a comprehensive educational experience in Taiwan, as well as equipping them with skills relevant to the Asian job market.

TEEP offers programs in emerging fields such as Information Communication Technology (ICT), Internet of Things (IoT), Blockchain Technology, Semiconductors, 5G Wireless Communications, Advanced Manufacturing, Smart Manufacturing, Robotics, Green Energy, Biosensors, Logistics Management, Molecular Biology and Smart Health Care, and English-Medium-Instruction (EMI) Teaching. TEEP also offers Mandarin Language Training and Cultural Experience courses.

Internship Plus Mandarin Chinese Learning

The wide range of programs under TEEP provides students from all backgrounds opportunities to immerse themselves in the operations of key Taiwan companies and industries. TEEP also helps students find relevant and useful job placements. In these positions, students can gain firsthand knowledge that puts them well on their way in the business world. To ease participants into their internship environments in Taiwan, TEEP also offers cultural immersion programs to prepare their language fluency and cultural awareness. In addition, most of the participants are provided with dormitory accommodations.

Taiwan is an ideal place for international students to learn Mandarin Chinese, also known as Mandarin, Huayu, Guoyu, Hanyu, Putonghua, and Zhongwen around the world. There is a worldwide enthusiasm for learning Chinese, and knowing the language allows for access to the large global Mandarin-speaking community. Mandarin is the primary language used in Taiwan, and there is an abundance of resources available to Mandarin learners. Taiwan is also an ideal place for learning traditional Chinese characters, which allows for better connection with Chinese traditions and culture.



TEEP Programs / Keywords List

University / College	Program Theme
Chang Gung University	Nanomedicine, Deep Learning, Inflammatory Disease, Biosensor, Green Energy, Biosynthesis, Optical Sensing System, Cancer, Disease Prediction, RNA Virus, Influenza Virus, Stem Cell Biology, Nanoparticle Application, Metabolic Enzyme, Chinese Medicine, Brain Tumors
China Medical University	BMLAFS40, Precision Medicine, Anti-Inflammatory Compound, Herbal Medicine, Chinese Medicine, Acupuncture
Feng Chia University	Artificial Intelligence, Facial Recognition, Digital Converter, Water Quality, Circular Economy, Entrepreneurship, Metaverse, Smart Transportation, LiDAR System, Programming Education
Kaohsiung Medical University	Molecular Biology, Drug Delivery, Organic Synthesis, Nano Science, Medicinal Plants, Mass Spectrometry, Environmental Exposure Assessment, Bioinformatics, Screening Technology
Ming Chi University of Technology	Energy Technology, Biomaterials, Solid Electrolyte, Nanomaterials, Bilayer Graphene, Electrochemical Sensor, Biofuel
Minghsin University of Science and Technology	Bilingual Teaching, Smart Manufacturing, Semiconductor, Internet of Things
Nanhua University	Taiwan's Religion, Sustainable Agriculture
National Central University	Genetics, Transcriptomics
National Changhua University of Education	Catalyst Synthesis, Medicinal Chemistry, BNCT, Lactic Acid Bacteria, Animal Biotechnology, Natural Science, Synaptic Transistor, Polylactic Acid, Liquid Crystal, Hazardous Pesticides, Neural Networks, Fluorescence Spectroscopy, Power Generation Modules
National Cheng Kung University	Drug Search Algorithm, Smart Biosensor, Micron-scale Mixing, Nanomedicine, Energy Storage Technology, Drug Delivery System
National Chiayi University	Digital Humanities, Microbiology, Natural Product, Asymmetric Synthesis, Biodiversity

University / College	Program Theme
National Chin-Yi University of Technology	Tourism Development, Low-carbon Economy, Smart Technology, Intelligent Manufacturing
National Chung Cheng University	Hydrogen Energy, Cyber Security, Metal-air Battery, Plasma Jet, Self-driving Vehicle, SDGs, Renewable Energy, Environment & Mathematics, Phytochemicals, Smart City Governance, Semiconductor Photonic Material, Microwave Circuit Design
National Chung Hsing University	Wastewater Treatment, Sediment Remediation, Fast Radio Bursts, Process Systems Engineering, International Community, Environmental Remediation, Biomedical Instrumentation Design, Zero Carbon Emission, Sustainability & Recycling, Cancer Therapy
National Dong Hwa University	Silico Drug Discovery, Data Analysis, Net Zero Society, Photocatalysts, Passivation
National Formosa University	Aircraft Maintenance Training, Airline Operators, UAV Vehicle Design
National Ilan University	Microbial Fuel Cell, Polymer Materials, H2 Formation, Microwave Engineering, 3D Printing Technology, High Efficiency Motors, Circular Economy, TEFL Internship, Membrane Separation Technology, AloT technology, B5G Communication, Lanyang Literature, Biopolymers,
National Kaohsiung Normal University	Common Prosperity
National Pingtung University of Science and Technology	Microbiome Metagenomics, Precision Agriculture, Phytobiotics, Food Processing, Infectious Disease
National Sun Yat-sen University	Semiconductor, Condensed Matter, Biomass-based Materials, Business Talents
National Taipei University of Technology	Gamification Language Learning, Membrane, Synthesize Biopolymer, Nanomaterials, Nanocomposite
National Taiwan Normal University	Plant Biotechnology, Emotional Robot, Robot Navigation System
National Taiwan Ocean University	Environmental Change, Wind Turbine
National Taiwan University	Metal Dichalcogenide, Mechatronics, Battery, Screening Device, Photosynthesis, 6G Communication System

University / College	Program Theme
National Taiwan University of Science and Technology	Organic Solvent Nanofiltration, Sustainable Smart Innovation, Electrochemical Energy, Semiconductor Ecosystem, Carbon Utilization
National Tsing Hua University	Semiconductor, Smart City, Nanomedicine, Model Organisms, Stem Cell Delivery, Molecular Biology
National Yang Ming Chiao Tung University	Bioinorganic Chemistry, Nanoparticle Monitoring, Autonomous Vehicle, Fluid Dynamics, Photonics System, Nanotechnology, Cyber Security, Wireless Power, Semiconductor Technology, Glucose Sensor, Robotics
Providence University	Sunscreen Ingredient, Solar Cell & Lithium-ion Battery, Artificial Intelligence
Southern Taiwan University of Science and Technology	Haptic Enhanced Assistive Device, Postharvest Processing, Computer-Human Interaction, Text Mining
Taipei Medical University	Translational Medicine, Big Data Analytics, Drug repurposing, Cancer Therapy, Precision Medicine, Immunotherapy, Machine Learning, Neurology
Tamkang University	Wastewater Treatment, Organic Material, Nanomaterial, Sports Science
Tatung University	Photovoltaic Micro-grid, Sustainability
Tunghai University	Circular Economy, Electrochemistry, Fluid Mechanics, Pharmaceutical Material
Tzu Chi University of Science and Technology	Precision Health Care
Yuan Ze University	Design Engineering, Industry 4.0, Usage Analysis, Computer Vision



Semiconductor Learning Program for International Youth

Minghsin University of Science and Technology (MUST)

Minghsin University of Science and Technology, supported by Taiwan's Ministry of Education (MOE), is the first in establishing a comprehensive semiconductor learning ecosystem, including Taiwan's first Semiconductor School and first Industry-Academic Cooperation Semiconductor Elite Class. Students can benefit from the university's Semiconductor Packaging and Testing Production Simulation Line and Semiconductor Packaging Engineer Ability Appraisal Examination Room (only one in Taiwan). The university also issues Semiconductor Packaging Engineer Certificate, first of its kind in Taiwan. This year (2023), we received support from MOE and invested NT\$120 million to establish the Semiconductor Talent Cultivation Base on our campus, with the aim of nurturing professionals in semiconductor equipment development, maintenance, packaging, testing, quality control, and factory engineering to meet the industry's demands.

We welcome international students to study with Minghsin University of Science and Technology to make use of the abundant resources the school provides and obtain a Semiconductor Packaging Engineer Certificate. Students can also intern at our partner companies to gain deeper understanding of semiconductor theories and practices. The first half month of this program is a trip to know Taiwan's customs and culture. The Chinese Language Learning Center of the school arranges elementary Chinese courses to help international students learn the basic Chinese required to live in Taiwan.



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Youth Business Talents Initiative Taiwan (YBTI Taiwan)

National Sun Yat-sen University (NSYSU)

Do you have a big idea to make an impact? This summer, from late June to early September, NSYSU is working with TEEP in hosting the Youth Business Talents Initiative Taiwan (YBTI Taiwan), a global internship lab.

This program offers a team internship opportunity for international youths interested in seeking career development in the economically booming Asia area. Our program offers a well-designed platform for international talents and Taiwanese companies to have access to each other. Participants also have the chance to be recruited as full-time employees by Taiwanese companies upon completion of the program. Over the past eight years (2015-2022), ten international students from the USA, Vietnam, Indonesia, France, and South Africa were offered full-time positions by local businesses and have chosen to settle in Taiwan to pursue their careers. We anticipate connecting even more international talents with Taiwanese companies in the years to come.

Why should you join?

- 1 Meet purpose driven top talents with diverse background and expertise and build strong lasting relationships and friendships.
- 2 Gain practical experience while exploring Taiwanese business culture and developing new ideas.
- 3 Engage in cultural trips and activities to experience the unique Taiwanese culture.
- 4 Receive partial subsidies for a 12-week allowance of NT\$10,000 to 12,000 for living expenses in Kaohsiung.
- 5 Have a chance to be recruited as a full-time employee in Taiwan after the program.



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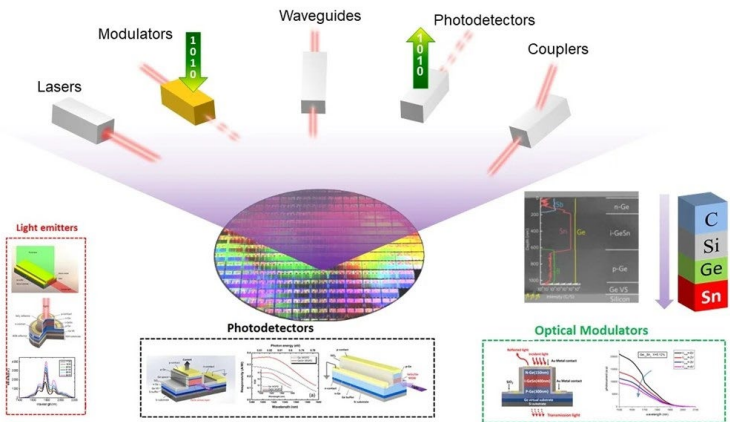
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Semiconductor Photonic Materials and Devices, Silicon Photonics, and Optical Biosensors

National Chung Cheng University (CCU)

The Photonic Nanostructures and Device Laboratory of National Chung Cheng University is offering talented international students the opportunity to conduct research on semiconductor photodetectors, photonic devices, and optical biosensors through a two-to-six-month internship. The TEEP scholarship covers partial airfare, on-campus accommodation, and monthly stipend. We are one of the world's leading research groups in the field of silicon photonics and optical biosensors. The group is currently working on developing (a) new types of silicon-based, CMOS compatible photodetectors, which have many advantages over conventional III-V-based counterparts for mid-infrared applications; and (b) novel disposable optical biosensors for cost-effective and rapid biomedical detection for precise medicine. This internship program is open for applicants who are interested in advanced optoelectronic-sensing technologies. Focus will be placed on designing, fabricating, and characterizing new Si-based group-IV photodetectors and optical biosensors. Please prepare your CV if you're interested in applying and feel free to contact us for any questions. Consider joining our research team at National Chung Cheng University to create a successful career now.



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Sustainable Development, Artificial Intelligence, and Smart City Governance

National Chung Cheng University (CCU)

International graduate students (non-PhD holders) are welcome to apply for a research internship lasting between two-to-six months at the Research Center on AI and Sustainable Development at National Chung Cheng University. Research for the internship will be lab-based and conducted in collaboration with various companies such as Vpon Big Data, Marvel Intelligence Technology, Tata, and Tech Mahindra. The focus of the internship is on topics such as AI, sustainable development (with emphasis on SDG 11 for sustainable smart communities), and AIoT design applied to traffic and environmental pollution detection and prediction. CCU has an Integrated Command and Control Center for Sustainable Smart Cities that provides a cloud-based platform for research projects and experiments. The platform runs on open-source tools such as Kubernetes, Kubeflow, and KServe. Our research centers on Trustworthy AI and Sustainable Development Goals. We specialize in data/model governance and use deep neural network models for various applications, such as de-raining and de-fogging, multi-camera vehicle tracking, air pollution (PM2.5, PM10, AQI) detection based on drone images, and water pollution detection. We also work on medical image segmentation using UNet models for areas such as abdomen haemorrhage and liver tumors. We encourage applicants with a background in Computer Science or Information Management to apply, and those from other backgrounds to inquire before applying.



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Hydrogen Energy and Fuel Cells

National Chung Cheng University (CCU)

In the Fuel Cell Laboratory at National Chung Cheng University, we develop key components for proton exchange membrane fuel cells (PEMFCs), water electrolyzers, and all-vanadium redox flow batteries (VRFBs).

Facilities in our lab including :

- 1 an ultra-sonic spraying system, coating catalyst ink on the membrane or gas diffusion layer;
- 2 fuel cell test stations, measuring the performance and durability of PEMFCs;
- 3 battery testers, measuring the charge-discharge curves of VRFBs.

We design membrane electrode assemblies and bipolar plates for fuel cell stacks and VRFB stacks and measure their performance. One of our current projects aims for developing an ultralight fuel cell stack for unmanned aerial vehicles applications. Students will have opportunities to present papers in international conferences. Our findings are published in top journals such as *Journal of Power Sources*, *Applied Energy*, *International Journal of Hydrogen Energy*, and *Energies*. If you're interested in fuel cells, flow batteries, or green energy technologies, we welcome you to apply and join our team.



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Applications of Artificial Intelligence Techniques on Sustainable Development Goals (SDGs), Specifically on Gerontechnology, Health Caring, and Green Energy

National Chung Cheng University (CCU)

We welcome international students interested in project-based learning (PBL) focused on applying Artificial Intelligence Techniques to Sustainable Development Goals (SDGs), specifically gerontechnology, health care, and green energy. This PBL project involves research on computer vision using modern deep learning (machine learning) techniques, including CNN, RNN, LSTM, AE, VAE, and more.

The possible applications and topics include : **(1)** 3D human skeleton extraction, skeleton-based action recognition, and action prediction for elderly monitoring; **(2)** depth estimation from mono-binocular images; **(3)** 3D object (vehicle, pedestrian, cyclist) detection and positioning from fusion of RGB/LiDAR sensor data; **(4)** mapless robot navigation based on deep reinforce learning (DRL); **(5)** object (head/vehicle/human/object) pose estimation from single RGB image; **(6)** deep learning-based adverse drug reaction (ADR) or diseases prediction for biomedicine.

Prospective candidates should possess basic knowledge on NN (neural network) or deep learning and proficiency in Python programming. During the program, participants will learn how to apply state-of-the-art deep learning techniques to solve the indicated problems. For more detail about the topics, please visit this YouTube video : <https://youtu.be/tlwenpyFRhw>

If you are interested in renewable or green energy, we can connect you with specialized professors to further discuss potential internships. Long-term internships (four-to-six months) are especially welcome, as interns can use their results for their graduation projects. Our scholarship covers flight fare (NT\$5,000-20,000, depending on the country), free on-campus accommodation, and a weekly stipend of NT\$1,500. The scholarship nearly covers all expenses associated with interning at our university.



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Green Energy and Circular Economy

Feng Chia University (FCU)

After arriving in Taiwan, students will either take part in laboratory research or intern in a green energy and circular economy company such as RiQian (kitchen waste biomass energy), ZOLARGUS (solar energy), Yuanchuang (co-digestion biogas energy), Mobii Green Energy (green power trading), and Green Birth Farm (ecological farm). Throughout the program, students will report weekly progress and share a video of two-to-three minutes in length to deepen exchanges with academic institutions worldwide.

During the program in Taiwan, students will have the opportunity to experience the educational system, with a special focus on green energy science and technology at Feng Chia University and partner companies. Students are also encouraged to write a research manuscript based on their study and internship. The scholarship we offer includes round-trip flight tickets (depending on the student's itinerary), dormitory accommodations, temporary student card, health and accident insurance, and a living allowance.

Feng Chia
University (FCU)



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Taiwan-Texas Bilateral Science Summer Camp for Precision Medicine

China Medical University (CMU)

This short-term, summer program aims to facilitate bilateral collaboration between Taiwan and the US. The program accepts both undergraduate and graduate students, and the participants will join the research groups at China Medical University to explore the field of precision medicine, including AI-assisted medicine, anticancer immunotherapy, and regenerative medicine. This program incorporates hands-on experiments, workshops for scientific communications, and networking activities.

China Medical University (CMU)



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