



National Chiao Tung University

A Top Research University in Taiwan





Mission

- To cultivate the next generation of high-tech leaders through diverse and holistic education
- To explore new knowledge with state-of-the-art facilities and interdisciplinary research
- To take a lead in innovative and progressive technological research and development

2009 Faculty & Students

Faculty	968
Research staff	126
Undergraduate students	5,339
Master's students	4,540
On-the-job Master's students	1,968
Ph.D. students	2,337



Introduction

National Chiao Tung University (NCTU) is a top research university located in Hsinchu, the heart of the high-tech industry in Taiwan. In addition to providing first-rate education, NCTU collaborates closely with science and technology industries in developing cutting-edge research and cultivating entrepreneurs in high-tech and leaders in society.

Originally founded in Shanghai in 1896, NCTU has been dedicated to the development of science and technology in Taiwan since its re-establishment in Hsinchu in 1958. As a prestigious, comprehensive university, NCTU offers a wide spectrum of disciplines in its nine colleges.

The University's faculty is staffed by distinguished scholars, many of whom have received their degrees from world-class universities. Dedicated to research and education, faculty members encourage independent learning and thinking, infusing students with a passion for conducting pioneering research.



Research Centers

The faculty has made significant contributions to their professional fields that have earned international recognition and numerous awards. To further promote innovation and ground-breaking research, NCTU has established six research centers on campus under the "Aiming for Top University" Plan governed by the Ministry of Education:

- Center for Biomedical and Biological Engineering
- Center for Green Energy Technology
- Center for Interdisciplinary Science
- Information and Communications Research Center
- Nanoelectronics and Infotronic Systems Research Center
- X-Photonics Interdisciplinary Center

Contributions to Industry

NCTU is strategically located near the Hsinchu Science Park (HSP) and national research facilities. It has laid a firm foundation for the HSP, the spectacular development of which has been the major contributor to placing Taiwan on the world stage in high-tech. The University has acted as the cradle for high-tech industry leaders as well as a think-tank for innovation and research.

The University has a strong alumni network with outstanding alumni as leading figures in academia, industry and government. Nearly two-thirds of the CEOs and general managers in high-tech companies in the HSP are NCTU alumni. Moreover, NCTU and mainland China's four Jiaotong universities boast the largest alumni network in the Asia-Pacific region.



Outstanding NCTU alumni

Dr. Stan Shih	Founder of Acer Group
Mr. Jonney Shih	Chairman of ASUSTeK Computer Inc
Dr. F.C. Tseng	Vice Chairman of Taiwan Semiconductor Manufacturing Company Limited (TSMC)
Dr. John Hsuan	Former CEO of United Microelectronics Corporation (UMC)
Dr. Ken Kao	Founder of D-Link Corporation

In terms of achievements, NCTU filed 230 patents and completed 61 technology transfers in 2008 alone. In fact, more patents have been granted to NCTU than any other university in Taiwan, and the revenue generated by technology licensing at NCTU is more than any other in the nation.

At NCTU, creative students are constantly coming up with innovative business ideas. One of the success stories is that of WRETCH.CC, the largest blogging and online photo sharing community in Taiwan, which was acquired by Yahoo! in 2007.

Academic Achievements

Academic Ranking of World Universities by Shanghai Jiaotong University, 2008

➤ 51st in the world (1st in Taiwan) in engineering

Essential Science Indicators (ESI), 2009

➤ 20th in the world (1st in Taiwan) in the number of journal articles published in computer science

➤ 69th in the world in paper citations

Institute of Electrical and Electronics Engineers (IEEE) Fellowships

➤ 1st in the number of IEEE fellows as faculty members (23 fellows) among all universities in Taiwan

Academics

NCTU has nine colleges offering over 100 undergraduate and graduate programs.

College of Electrical and Computer Engineering

- Department of Electrical Engineering
 - Department of Electronics Engineering
 - Department of Photonics
 - Display Institute
 - Institute of Communication Engineering
 - Institute of Electrical and Control Engineering
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College of Computer Science

- Department of Computer Science
 - EECS International Graduate Program in System on Chip Concentration
 - EECS International Graduate Program in Telecommunication/Networking Concentration
 - Institute of Biomedical Engineering
 - Institute of Computer Science and Engineering
 - Institute of Multimedia Engineering
 - Institute of Network Engineering
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College of Engineering

- Department of Civil Engineering
- Department of Materials Science and Engineering
- Department of Mechanical Engineering
- Institute of Environmental Engineering
- Institute of Nanotechnology
- Master's Program of Sound and Music Innovative Technologies
- Degree Program of Nano Science and Engineering (B.S.)
- Graduate Program for Science and Technology of Accelerator Light Source

College of Science

- Department of Applied Chemistry
 - Department of Applied Mathematics
 - Department of Electrophysics
 - Institute of Mathematical Modeling and Scientific Computing
 - Institute of Molecular Science
 - Institute of Physics
 - Institute of Statistics
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College of Biological Science and Technology

- Department of Biological Science and Technology
 - Institute of Bioinformatics and Systems Biology
 - Institute of Molecular Medicine and Bioengineering
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College of Management

- Department of Industrial Engineering and Management
 - Department of Transportation Technology and Management
 - Department of Information and Finance Management
 - Department of Management Science
 - Global MBA Program
 - Graduate Institute for Social Research and Cultural Studies
 - Institute of Finance
 - Institute of Information Management
 - Institute of Management of Technology
 - Institute of Technology Law
 - Institute of Traffic and Transportation
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College of Humanities and Social Sciences

- Department of Foreign Languages and Literatures
 - Institute of Applied Arts
 - Institute of Architecture
 - Institute of Communication Studies
 - Graduate Institute for Social Research and Cultural Studies
 - Institute of Education
 - Institute of Foreign Literatures and Linguistics
 - Institute of Music
 - Institute of Teaching English to Speakers of Other Languages
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College of Hakka Studies

- Department of Communication and Technology
 - Department of Humanities and Social Sciences
 - Graduate Institute of Ethnicity and Culture
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College of Photonics

- Institute of Photonic System
- Institute of Lighting and Energy Photonics
- Institute of Imaging and Biomedical Photonics



Internationalization

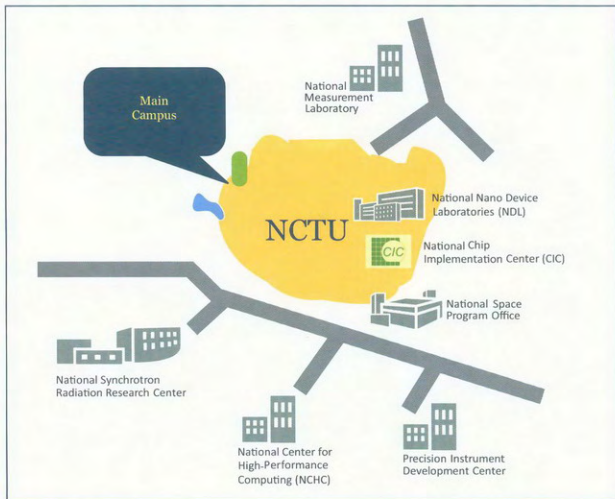
NCTU has an increasingly internationalized campus and has attracted students from more than 40 countries. The University is also expanding partnerships with leading industries and prominent academic and research institutes around the world as part of the commitment to internationalization.

The Office of International Affairs has been established to promote the internationalization process and enhance the global presence of the University. To date NCTU has entered into over 100 international collaboration agreements, including dual degree programs, sister universities, and joint research projects. English-taught courses are offered in all nine colleges, while Chinese language courses are available for international students free of charge.

One example of international collaboration is the Chalmers Asia Office, which was set up at NCTU in 2003 by the Chalmers School of Technology in Sweden to assist exchange students. As the University continues the drive for internationalization, it is constantly looking for opportunities for collaboration and exchange in all areas.

Research Resources

Surrounded by seven national research centers and laboratories, NCTU offers students many opportunities to participate in leading technology experiments.



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