

Department of Resources Engineering



NCKU



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About Us

The Department of Resources Engineering at National Cheng-Kung University was established in 1974 to address the demand for the exploitation, utilization, reclamation, management and treatment of various resources. The Department is the only institution in Taiwan offering advanced education in resources engineering, including minerals, energy, soil and water resources. The breadth of training that the Department affords resource engineers permits entry into many exciting new fields of endeavor.

Teaching Objectives

The undergraduate program:

- ◆ Resources development (including energy, soil and water)
- ◆ Geological engineering
- ◆ Mineral engineering
- ◆ Resource reclamation

The graduate program:

- ◆ Resource development
- ◆ Geological engineering
- ◆ Hydrogeology
- ◆ Petroleum engineering
- ◆ Explosive & blasting engineering
- ◆ Mineral science and engineering
- ◆ Ceramic engineering
- ◆ Resource reclamation and final treatment
- ◆ Resource management and economics

Academic Information

M.S. Program :

- ◆ Complete at least 24 graduate credits.
- ◆ Additional 6 credits for Master's thesis are required.
- ◆ Students should take at least 15 credits offered by the department.

Phd. Program :

- ◆ Complete at least 18 graduate credits.
- ◆ Additional 6 credits for Doctoral dissertation are required.
- ◆ The qualifying examination for being a Doctoral candidate must be passed within the first 3 years of study.

Graduate Admissions

Master of Engineer Program: **3**

PhD. of Engineer Program: **3**

Number of International Graduate Students in the department now: **2**



Faculty

Kuo-Chin Hsu
Professor and Chair.

Cheng-Haw Lee
Distinguished Professor

Chao-Shi Chen
Professor

Chein-Lee Wang
Associate Professor

Ting-To Yu
Associate Professor

Bieng-Zhi Hsieh
Associate Professor

Hsin-Fu Yeh
Associate Professor

Hung-Yu Wu
Assistant Professor

Resources Development and Conservation:

Faculty Professors

Research Area

Resources Development and Conservation
Exploration, drilling oil production, and natural resource
Development and innovation of mining environment
Rock slope engineering, rock mechanics, remote sensing
Application of groundwater geology and engineering

Resource Material and Regeneration:

Faculty Professors

Research Area

Chi-Yuen Huang
Professor

Hsing-I Hsiang
Professor

Yun-Hwei Shen
Professor

Yu-Chun Wu
Assistant Professor

Wei-Sheng Chen
Associate Professor

Ying-Liang Chen
Assistant Professor

Hui-Chun Chen
Assistant Professor

Resource Material and Regeneration
Nanotechnology in mineral and ceramic applications
Recovery and recycling of resources in waste
Research of isotope and organic tracer technology
Soil and groundwater pollution remediation

Resources Management and Economics:

Faculty Professors

Research Area

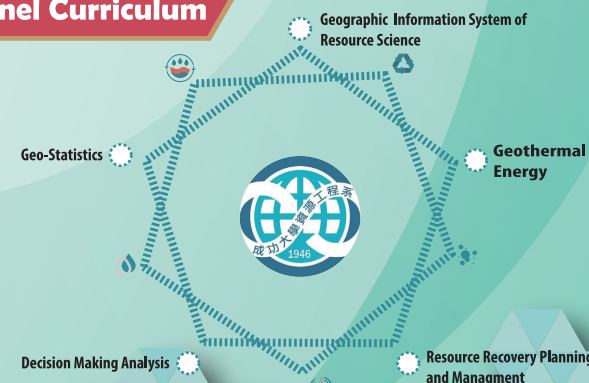
Jung-Hua Wu
Professor

Li-Hsing Shih
Professor

Yun-Hsun Huang
Assistant Professor

Economic analysis, policy analysis, resource regeneration
Petroleum strategy and management of mining
Management and systems engineering research
Green innovation management, and operational research

Kernel Curriculum



There are **12 English courses** in PhD/Master programs, including *Geo-Statistics* and *Reservoir Geomechanics*. Scan the QR code for the detail.



NCKU Guidelines for the International Student **Scholarship Program** for Bachelor's and Master's Degree Students



International Competitiveness



Complete Career Planning



Outstanding Alumni in Academic and Industry

