

# Department of Resources Engineering



NCKU



Department of Resources Engineering, National Cheng Kung University  
No.1, University Road, Tainan City 701, Taiwan  
Tel : +886-6-2757575 ext.62800  
E-mail : [em62800@email.ncku.edu.tw](mailto:em62800@email.ncku.edu.tw)  
Web : <http://www.mp.ncku.edu.tw/bin/home.php>

National Cheng Kung University  
No.1, University Road, Tainan City, 70101, TAIWAN (R.O.C.) TEL : 886-6-2757575



## 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.

### Ph.D. 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

### Resource Material and Regeneration:

#### Faculty Professors

**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

### Resources Management and Economics:

#### Faculty Professors

**Jung-Hua Wu**  
Professor

**Li-Hsing Shih**  
Professor

**Yun-Hsun Huang**  
Assistant Professor

### 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

### Research Area

- 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

### Research Area

- 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' and Master's Degree Students

- International Competitiveness
- Complete Career Planning
- Outstanding Alumni in Academic and Industry

