

MASTER of "The International Institute of Medical Device Innovation, MDI"



Department of Biomedical Engineering, National Cheng Kung University No.1, University Road, Tainan City 701, Taiwan
Tel: +886-6-2757575 ext. 63400 Fax: +886-6-2343270
Email: em63400@email.ncku.edu.tw



Office of International Affairs, National Cheng Kung University No.1, University Road, Tainan City 701, Taiwan
Tel: +886-6-2085608 Fax: +886-6-2766430
Email: em50951@email.ncku.edu.tw

National Cheng Kung University
No.1, University Road, Tainan City 701, Taiwan (R.O.C) TEL: 886-6-2757575

MDI devotes to cultivate talents to identify the unmet clinical needs and accordingly prepare for value-oriented medical device industry and medicine of future.

SOLVE THE MADICAL PRACTICE CHALLENGES. ENGINEER SOLUTIONS TO UNMET CLINICAL NEEDS. EXCEL IN ENTREPRENEURSHIP, TECHNOLOGY COMMERCIALIZATION, CLINICAL TRIALS, AND REGULATORY ISSUES.

Earn your degree at the National Cheng Kung University under the resourceful environment surrounded by Engineering School, Medical School & Management School.

The International Institute of Medical Device Innovation (MDI) is a new master program that integrates bio-engineering design and entrepreneurship education to creatively address unmet clinical needs.

THE PROGRAM FEATURES

- Entrepreneurial focus – Learn about business issues specific to medical device technology commercialization.
- Technology concentration areas focus – Choose a technical emphasis area from biomechanics, bioelectronics, biomaterials, biomedical imaging and informatics.
- Design skills training – Participate in a BioDesign team to complete a design project which solve real clinical problems or full-time industry internship.
- Clinical focus– Work with faculty and physician of NCKU hospital to identify unmet clinical needs.
- Regulatory focus – Work with regulatory experts and startup companies to understand the regulatory issues while bringing new technology to market.

CURRICULUM

The Master Program must be completed within 2 to 4 years for international students and 2 to 5 years for local students. The scholarship for international students expires 24 months after enrollment.

Core Curriculum

- BioDesign (1) – identify unmet needs & practice invention skills
- BioDesign (2) – implementation of innovative medical devices
- High-Tech Entrepreneurship and Venture Capital
- Bio-Tech Industrial Analysis
- Medical Device Regulatory
- Intellectual Property Rights and Management
- Statistics and Clinical trials for Medical Device

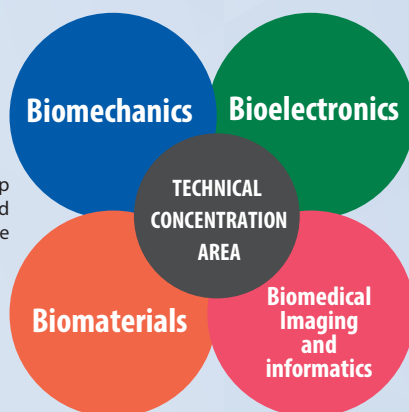
TECHNICAL CONCENTRATION COURSES

In addition to the Core Curriculum of design skills and entrepreneurship courses, students will demonstrate competency in their selected Technical Concentration Area by taking some required and elective courses, for a total of at least 9 credits.

Course Requirements

Minimum of 30 credits need to be fulfilled. Students are required to take the following:

- ✓ Core Curriculum: 15 credits
- ✓ Technical Concentration Area: 9 credits
- ✓ Credits for the seminar: 4 credits



Scholarships

Amount: NTD 2,000-4,000 /month from your advisor

Guaranteed for the first year. After that, it will be evaluated on a yearly basis. The duration of sponsorship will be determined by the departmental academic committee.

Who Should Apply?

- Strong candidates will hold a B.S. or higher degree in engineering, biotechnology, medical science or other interdisciplinary fields.
- Business/management or industrial design students with great interest in pursuing medical device entrepreneurship and career are encouraged to apply.

Careers & Future Prospects

MDI trains students to play a pivotal role in connecting engineering design to address clinical challenges and fulfill the market-based demands of medical device industry. Graduates will have in-demand skills for work in biomedical device industry and translational research. Relying on the accumulation of know-how and the aid of advanced medical devices, we can shape a better future of modern healthcare. NCKU is closely link to Southern Taiwan Science Park and Hsinchu Biomedical Science Park for medical device manufacturing companies and startup companies.

The College of Engineering at NCKU has strong ties with industry, abundant resources, a good reputation, and a high ranking among other counterparts in the world. Our graduates are highly competitive in the job market ranking number 1 in several surveys. To attract international students and connect with the world, we offer courses lectured in English and encourage our faculty to put effort into not only innovative research but also high-value applications in industry. The MDI/BME is one of the first programs focusing on biomedical engineering entrepreneurship in Asia and will become more influential because an increasing number of alumni who carry the spirit of NCKU strive to shine their talents worldwide. We sincerely welcome you to join the Department of Biomedical Engineering at NCKU. Be part of us and be part of success.

Application

Timeline

Fall Semester	1/10~3/30 Application Period	5/20 Admission Announcement 6/15 Admission Letters Mailed
Spring Semester	7/10~10/10 Application Period	11/20 Admission Announcement 12/3 Admission Letters Mailed

Methods

Complete the application online at the website before the deadline:

<http://admissions.oia.ncku.edu.tw>