

TAIWAN-KMUTT INTERNSHIP PROGRAM (TKIP)

July – August, 2017

KING MONGKUT'S UNIVERSITY OF TECHNOLOGY THONBURI

Bangkok, Thailand



**126 Pracha-utid Road
Bangmod, Thoongkru, Bangkok 10140
www.kmutt.ac.th**

In Collaboration With



**Program Agenda
for
Opening and Closing Ceremonies**

Monday July 3, 2017

- TKIP students arriving and airport pick-up by KMUTT
- TKIP students are to check into Heliconia House at KMUTT Bangmod Campus
- Accompanying professors from Taiwan are to check into a hotel

Tuesday July 4, 2017

- Opening Ceremony and Orientation to be presided by KMUTT President
- Participants: KMUTT's executives and faculty members, Taiwanese affiliates in Thailand, professors from Taiwan, Taiwanese and Thai TKIP students, and representatives of host companies

Wednesday July 5, 2017

- Cultural excursion in Bangkok organized by KMUTT's International Affairs Office

Thursday July 6, 2017

- TKIP students are to be sent off to host companies
-

Tuesday August 29, 2017

- TKIP students are to come back to KMUTT
- TKIP students are to check into Hotel ibis Bangkok Riverside near KX Building

Wednesday August 30, 2017

- Closing Ceremony of TKIP at KMUTT's KX Building

Thursday August 31, 2017

- Taiwanese TKIP students are to fly back to Taiwan

Notes: TKIP students will be staying at KMUTT for 3 nights during Orientation at Heliconia House on Bangmod Campus and 2 nights during Closing at Hotel ibis Bangkok Riverside.

Introduction

Internship has become an integral part in higher education. Students learn better and faster when they go through practical training in companies before graduating from universities. Better still, overseas internship offers students a chance to be exposed to other cultures at placement. As a result, King Mongkut's University of Technology Thonburi (KMUTT) recently initiated the Taiwan-KMUTT Internship Program (TKIP) with the following aims:

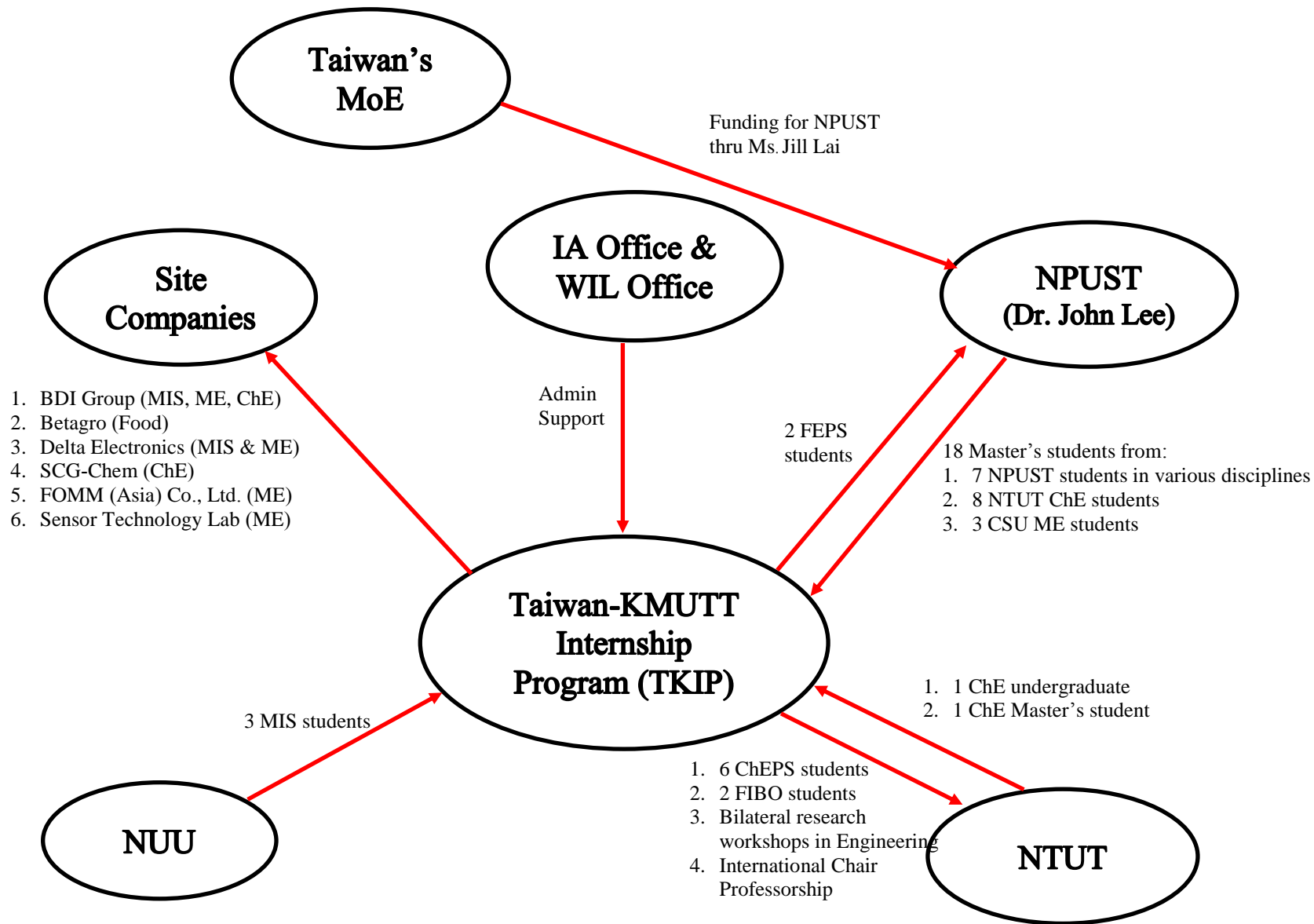
- ❑ Exchange of internship students between KMUTT and selected universities in Taiwan in research labs and private companies.
- ❑ Cultural exchanges and cross-learning between KMUTT and Taiwanese students

The establishment of TKIP is very timely, as the new Taiwanese government elected in 2016 has a new strategic "Southbound Policy" aimed at increasing cooperation and collaboration, both in academics and in trades, with neighboring countries to Taiwan's south. As such, the Ministry of Education (MoE) of Taiwan has seen a significant increase in its budget that will fund more Taiwanese students who wish to do internship in overseas countries such as Thailand, Malaysia, Singapore, etc.

Below is a diagram showing the working structure of TKIP at KMUTT. At present, the four universities in Taiwan who are TKIP's academic partners and will be sending students to Thailand are during July – August 2017 are:

1. National Taipei University of Technology (NTUT or Taipei Tech)
URL: <http://www-en.ntut.edu.tw/bin/home.php>
2. National Pingtung University of Science and Technology (NPUST)
URL: http://www.npust.edu.tw/index_en.aspx
3. Cheng Shiu University (CSU)
<http://www.csu.edu.tw/csueng/>
4. National United University (NUU)
URL: <http://www.nuu.edu.tw/UIPWeb/wSite/mp?mp=50>

NTUT is very similar to KMUTT, both in world rankings and expertise, and has a very strong reputation in science and engineering. On the other hand, NPUST is very strong in food science/engineering and agricultural technologies. CSU is a private university dedicated to promoting the cultivation of well-rounded individuals equally adept in science and humanities. Finally, NUU is a well-rounded university with a reputable college of engineering and college of IT and information system management.



CSU = Cheng Shiu University, ChEPS = Chemical Engineering Practice School at KMUTT, FEPS = Food Engineering Practice School at KMUTT, FIBO = Institute of Field Robotics at KMUTT, IA = International Affairs, MoE = Ministry of Education, NPUST = National Pingtung University of Science and Technology, NTUT = National Taipei University of Technology, NUU = National United University, WIL = Work-Integrated Learning Office at KMUTT

Host Companies and R&D Laboratories of Inbound and Outbound TKIP Students

KMUTT has enlisted a number of companies and R&D laboratory to host 23 TKIP inbound Taiwanese students during their July-August internship in Thailand, including Sensor Technology Lab associated with KMUTT's Bangkhuntien Campus, as shown in the table below.


Host Company	Fields of Internship	Number of Students
Betagro Group	Food Sci. & Eng., ME, ChE, and MIS	4
BDI Group	MIS/IT, ME, and ChE	4
Delta Electronics (Thailand) PCL	MIS/IT, IE, EE, ME, and ChE	2
SCG Chemicals Co., Ltd.	ChE and ME	8
Sensor Technology Laboratory, KMUTT	ChE and ME	3
FOMM (Asia) Co., Ltd., KX Building	ME	2

On the other hand, a total of 10 outbound KMUTT students will be going to NTUT and NPUST for their Master's research thesis and summer internship, which is shown in the table below.

Research Lab and Host University	Fields of Research or Internship	Number of Students
Laboratory of Semiconductor Materials for EMO Applications, NTUT	Chemical Engineering	2
Department of Chemical Engineering, NTUT	Chemical Engineering	2
Institute of Environmental Engineering and Management, NTUT	Environmental Engineering	2
Assistive Robotics Laboratory, NTUT	Mechanical Engineering	2
Department of Food Science, NPUST	Food Engineering	2

Placement of TKIP Inbound Taiwanese Students

	Student Name	Institution	Major	Status	Photograph
SCG Chemicals Co., Ltd.					
1	Ms. Jia-Jun Tu	NTUT	Chemical Engineering	Master's	
2	Mr. Han-Yu Yang	NTUT	Chemical Engineering	Master's	
3	Mr. Jian-Yu Chen	NTUT	Chemical Engineering	Master's	
4	Mr. Yu-Hong Cheng	NTUT	Chemical Engineering	Master's	
5	Mr. Shao-Pou Chen	NTUT	Chemical Engineering	Master's	
6	Mr. Jung-Cheng Chiang	NTUT	Chemical Engineering	Master's	
7	Mr. Yu-Hong Lai	NTUT	Chemical Engineering	Master's	
8	Mr. Yi-Ting Chen	NTUT	Chemical Engineering	Master's	
BDI Group					
9	Mr. Chen-Lun Lee	NPUST	Materials Engineering	Master's	
10	Mr. Kuan-Yu Lin	NPUST	Materials Engineering	Master's	
11	Mr. Hao-Yun Chang	NUU	MIS	Undergraduate	
12	Mr. Jin-Rui Chang	NTUT	Chemical Engineering	Master's	
Betagro Group					
13	Mr. Cheng-Hsuan Hsieh	NPUST	Environmental Science & Engineering	Master's	

14	Ms. Li-Hsin Ou	NPUST	Food Science	Master's	
15	Ms. Yu-Chen Chiang	NUU	MIS	Undergraduate	
16	Mr. Chin-Cheng Liao	NTUT	Chemical Engineering	Undergraduate	
Delta Electronics (Thailand) PCL					
17	Mr. Ci-Yang Huang	NPUST	Vehicle Engineering	Master's	
18	Ms. Yun-Ru Hsu	NUU	MIS	Undergraduate	
Sensor Technology Lab, KMUTT					
19	Ms. Tzu-Yi Yen	CSU	Mechanical Engineering	Master's	
20	Ms. Wei-Chia Chang	CSU	Mechanical Engineering	Master's	
21	Mr. Bo-Cheng Lai	CSU	Mechanical Engineering	Master's	
FOMM (Asia) Co., Ltd.					
22	Mr. Hsing-Meng Wang	NPUST	Bio-mechatronics Engineering	Master's	
23	Mr. Jhen-Jia Guo	NPUST	Bio-mechatronics Engineering	Master's	











NTUT = National Taipei University of Technology

NPUST = National Pingtung University of Science and Technology

CSU = Cheng Shiu University

NUU = National United University

Placement of TKIP Outbound KMUTT Students

	Student Name	Major	Status	Photograph
Laboratory of Semiconductor Materials for EMO Applications, NTUT				
1	Ms. Isaraporn Songma	Chemical Engineering	Master's	
2	Ms. Napatsakorn Srimanoroth	Chemical Engineering	Master's	
Department of Chemical Engineering, NTUT				
3	Mr. Chayakorn Chantapornkasamjit	Chemical Engineering	Master's	
4	Ms. Apiradee Nakasupa	Chemical Engineering	Master's	
Institute of Environmental Engineering and Management, NTUT				
5	Ms. Supavee Keitsomboon	Chemical Engineering	Master's	
6	Ms. Tuangporn Pantanarat	Chemical Engineering	Master's	
7	Mr. Suvanut Kongsanit	Institute of Field Robotics	Undergraduate	
8	Mr. Sornnarong Ongklueap	Institute of Field Robotics	Undergraduate	
Department of Food Science, NPUST				
9	Ms. Panasaya Boonruang	Food Engineering	Master's	
10	Ms. Pornprapa Moonsoot	Food Engineering	Master's	

Profiles of Sponsoring Companies for Inbound Students

Betagro Group



Contact Info

Email: contactcenter@betagro.com

Tel: (+662) 833-8333

URL: <http://www.betagro.com/corporate/en>

Company Profile

Betagro Group engages in animal feed production, livestock, animal health products, and food product businesses. It offers animal feed for poultry, pigs, cattle, shrimps, fishes, and pets; and manufactures chicken feed, boiler chicken, raw chicken meat, and frozen and cooked products. The company also manufactures swine feed, as well as fattening pigs that are supplied to slaughter houses; manufactures frozen cooked food for export and concentrated soup base for industrial use; and manufactures and distributes specific pathogen free pork products. In addition, it processes and distributes chicken meat and pork, sausages, meat balls, eggs, and cooked products; manufactures animal medicines and health supplements formulated especially for commercial livestock; manufactures and distributes farm equipment; and provides chemical and biological laboratory services. Further, the company engages in food retail and wholesale, restaurant, resort, and plantation crop businesses. It serves customers in Thailand and internationally. Betagro Group was founded in 1967 and is headquartered in Bangkok, Thailand with feed manufacturing facilities throughout Thailand.

Established in 1967 under the name of Betagro Company Limited with registered capital of Baht 10 million. The company's main business started from production and distribution of animal feed products. Its first factory was located at Prapradang district, Samutprakarn province and the first head office was situated at Suanmali sub-district. The company continued to expand its business throughout the period starting from pork and chicken farm, animal feed production, hatcheries at Pakchong district, Nakornrachasima province to new production base at Lopburi province based on more suitable raw material resource and location to serve full course of company's agricultural industry covering animal food manufacturer, chicken and pig farms, hatcheries process fresh chicken meat and frozen chicken meat.

Frozen food products. Betagro has established Betagro Group of companies to run the business operation to cover production, raising, breeding and integration of swine and chicken, including the production of animal health care and pharmaceutical products of international standard. In addition, the company in collaboration with the agriculturists launched price guarantee project for chicken and eggs, contracted farm projects and hiring some agriculturists for swine raising to develop the high-quality breeding swine to top-grade fattening swine, production and distribution of fresh pork meat, fresh chicken meat and eggs to supply both domestic and international markets.

At present, Betagro Group develops into the leading corporation in agricultural industry and fully runs its business towards complete course in food business, starting from production of safe and quality food production of serve better life of Thai people and world population. Betagro Group enjoys its total revenue of over Baht 22,000 million, with 25 companies in the Group with over 15,000 employees nationwide and abroad. Betagro Group headquarter has moved to its new location at Betagro Tower in North Park, Vipavadi Rangsit Road, Bangkok since 22nd April, 1996.

Regional and Feed business

Betagro public Company Limited operates this line of business under Betagro Group of company by establishing subsidiaries in many provinces in all regions nationwide to support production and distribution of Betagro Group products. The Group's business covers animal feed production, operation of pig farm and egg farm, price guaranteed project of chicken meat and egg, contract farm projects and hires agriculturists to raise fattening swine, production and distribution of fresh pork meat, eggs and other food products. The group not only aims to supply high quality and hygienic food products for consumers but also to create job opportunities and income to the local people.

Betagro Public Company Limited: Feed Business

BTG (Betagro Group Public Company Limited) is the first company under Betagro Group of company. It is established in 1967 under the original name of Betagro Company Limited and changed to Betagro feed Co., Ltd. in 1989. The company operates the production of animal feed products to supply to Betagro subsidiaries and to distribute to all customers. In 1994, the company changed its name to Betagro Agro Group Public Company Limited. Due to economic crisis in 1997 and the Bird flu crisis in 2004, the company suspended the trading in the Security Exchange of Thailand and changed its name Betagro public Company Limited in 2007. The Betagro Group has many feed mills in various locations as follows:

- Feed mill at Prapradaeng, Samutprakarn.
- Feed mill at Amphur Muang, Nakorn Pathom.
- Feed mill at Pattananikom, Lopburi.
- Feed mill at Pakchong, Nakorn Ratchasima and another 2 local companies which conduct animal feed business in the North and the South:

1. Betagro Northern Agro-Industry Co., Ltd (BNA) has a feed mill at Amphur Muang, Lumphun, which produces and distributes animal feed stuff for customers in the upper northern region.

2. Betagro Southern Co.,Ltd (BTS) has a feed mill at Rattaphoom, Songkhla, which produces and distributes animal feed stuff for all customers in the southern region.

Internship Opportunities

Betagro offers summer internship opportunities to both undergraduate and graduate students in the fields of food science and food engineering. For example, Betagro has been a host company for KMUTT's Food Engineering Practice School (FEPS), a practice-based international Master's program, for over 10 years. In addition, Betagro also sponsors undergraduate students at KMUTT through its Work-Integrated Learning (WIL).

Typical internship projects at Betagro involve:

- Process improvement to increase yields and reduce losses
- Improvement of energy efficiency
- Quality improvements of food products



Company URL: <https://www.scgchemicals.com/en>

Company Overview

As one of SCG's three core businesses, SCG Chemicals manufactures and offers a full range of petrochemical products ranging from upstream production of olefins and intermediate production of styrene monomer, purified terephthalic acid and methyl methacrylate to downstream production of four main plastic resins, polyethylene, polypropylene, polyvinyl chloride, and polystyrene, including fabricated products such as film, pipe & fittings, and acrylic sheet. To better serve customers' requirements, SCG Chemicals assigns prime importance to the development of new technology and innovation for the creation of high value-added products and services (HVA). At present, SCG Chemicals is one of Thailand's largest integrated petrochemical companies and a key industrial producer in the Asia-Pacific region.

Widely recognized for product quality as well as for excellent management and world-class operation efficiency, SCG Chemicals has joint ventures with a number of the world's leading chemical companies, including The Dow Chemical Company, Mitsui Chemicals and Mitsubishi Rayon.

Internship Opportunities

SCG-Chem hosts many undergraduate students in Chemical Engineering from all over Thailand. The company is also a major sponsor of the Chemical Engineering Practice School (ChEPS), an international practice-based Master's curriculum at King Mongkut's University of Technology Thonburi (KMUTT). Each year, many ChEPS students are interned at the company's various subsidiaries for 6 months to a year. The company also employs many ChEPS graduates each year.

SCG-Chem produces a number of chemical products such as olefins and polymers. The company has many subsidiaries. A very important one is ROC or Rayong Olefins Co., Ltd., which is one of the biggest producers of olefins. Another important subsidiary is TPE or Thai Polyethylene Co., Ltd., which is specialized in producing polymers such as low-density polyethylene (LDPE) and high-density polyethylene (HDPE). SCG-Chem possess many complex chemical processes. So simulation is crucial to the company. Here, the preferred simulation program is Aspen Plus (developed by Aspen Technology, Inc. which is based in Massachusetts). Lately, SCG-Chem also moves its R&D into other areas such as green technologies, which require other software such as CFD (Computational Fluid Dynamics) simulators. A selected list of internship projects at SCG-Chem is shown below.

SCG-Chem the company is one of many business units of SCG Group, a conglomerate which owns a diverse portfolio of businesses. In addition to internship opportunities at SCG-Chem, chemical engineering students can also be interned at other SCG Group's business units, such as SCG Paper Public Co., Ltd., SCG Cement Public, Co., Ltd., or SCG Plastics Co., Ltd.

The following is a list of recent internship projects that SCG-Chem and KMUTT have been involved with.

- Computational Fluid Dynamics Simulation of Fine Particles Suspension in a Stirred Tank
- Process Synthesis and Intensification of Light Hydrocarbon Separation Schemes
- Development of VOC (Volatile Organic Compounds) Reduction Bio-processes for CKB Truck Loading
- Kinetic Modeling of Selective Hydrogenation of Acetylene by Regression Analysis
- Modeling of Extractive Distillation of Pilot Plant by Using Mixed Solvent
- Model Development of An Ethylene Dichloride Cracker
- Process Synthesis & Design for a Wide Range HCs (H₂ and C₁-C₉) Separation Process to Increase Ethylene Product
- Development of an Adsorption Mode

Delta Electronics (Thailand) Public Co., Ltd.



Bangpoo Plant

909 Soi 9, Moo 4, E.P.Z., Bangpoo Industrial Estate, Tambon Prakasa, Amphur Muang-samutprakarn, Samutprakarn Province 10280 Thailand.

Tel. : (+662) 709-2800

Fax : (+662) 709-2827

Wellgrow Plant

111 Moo 9, Bangwua, Bangpakong, Chachoengsao 24180 Thailand.

Tel. : (6638) 522-360

WEBSITE : www.deltathailand.com

Company Overview

Delta Electronics (Thailand) PCL. (DET), a Taiwan-based company, is one of the world's leading producers of power supplies and electronic components comprising cooling fans, EMI filters and solenoids. DET's key power management products consist of switching power supply, DC-DC Converters and solar inverters. The products are widely used in applications for automotive, medical, telecommunications, IT, automation and more.

Founded in 1990, DET has gradually ascended to the Stock Exchange of Thailand benchmark index (SET50) with consolidated revenue exceeding USD 1 billion. Through innovative business processes, astute M&A activities and being at the forefront of Green solutions across its products and organization, DET is now a world class power management solutions provider. Our factories are located in Thailand, India and Slovakia while its state-of-the-art R&D facilities are in Germany, Thailand and more than 10 other global locations where the best R&D talents are located.

Business Overview

Though Delta Thailand was initially set up as a cost effective production base for Delta group, today it has transformed itself into one of the world's leading Design, Manufacturing and Service (DMS) companies. Its businesses are now mainly involved in power management solutions and manufacture of electronic components i.e. cooling fan, electromagnetic interference filter (EMI) and solenoid. The current power management product line covers various types of power supplies including power systems for information technology, telecommunications, industrial applications, office automation, medical industries and power supplies for server, networking and DC-DC converter and adapter.

The Company was established in 1988 and its shares have been listed on the Stock Exchange of Thailand since 1995 under the symbol of "DELTA". Its Thailand's factories are located in

Bangpoo Industrial Estate, Samutprakarn, Wellgrow Industrial Estate, Chachoengsao, and the other production sites are in Slovakia and India. All of the manufacturing plants have now been operating with strong supports from its own 9 R&D centers which were established to strengthen its product design and development capabilities. Those R&D centers are situated in 8 countries, Germany, USA, Switzerland, UK, Romania, India, China and Thailand. (For further information of our operations, please refer to the section of "**Global Operations**").

With the efforts in continuously enhance its knowledge in the product design & development coupled with the extensive capability in production management and the reliable and efficient customer services, the Company's products are widely accepted by the world's renowned producers in IT, telecommunication, industrial application, medical and consumer electronics business such as HPQ, CISCO, Motorola, IBM, Black & Decker, ENGENIO, Sun Micro Systems, Phoenix, and others.

Internship Opportunities

Delta Electronics offers summer internships in various disciplines, both technical and non-technical. The non-technical fields are related to business management and international trade. For technical fields, the disciplines are:

1. Electrical Engineering and Electronics
2. Mechanical Engineering
3. Industrial Engineering
4. Chemical Engineering
5. Information Technology and Management

An example of an internship project in the IT Department at Delta involved:

- Basic understanding of HTML, how it works, and how it affects the interface, etc.
- Basics of C# language and general ideas on how to code in C#.
- Understanding of the importance of SQL in C#.
- jQuery: The purpose of jQuery is to adjust little parts of the interface and make the whole webpage looks more professional and consistent.

The task was to complete the webpage development of the E-Data Center Entrance Form.

B.D.I. Group



B.D.I. is a Taiwanese-owned company that manufactures a wide array of products ranging from electrical appliances (necessary for daily life) to various industrial parts including motorcycle and automobile spare parts, machinery parts, and complex and delicate products of electronic parts with specific requirements on their use individually.

COMPANY PROFILE

Founder	Mr. Suthum Changkajonsakdi
Established Date	January 17, 1978
Registered Capital	300 million Baht
Address	46/1 Moo 12 Bangplee Bangnatrad Rd.,T. Bangpleeyai, A. Bangplee, Samuthprakarn 10540 Thailand
Telephone No	(+662) 337-3078-84
Fax No	(+662) 337-3589-90
URL	www.bdi.co.th
E mail	bdigroup@cscoms.com
Total Plant Area	26,000 M2
Total Employees	400 persons

COMPANY HISTORY

YEAR	EVENT
January 17, 1978	First established at Bang – Chan with the capital of 4 million Baht and 30 employees.
October 1978	First Hub in Thailand was born.
January 1980	Moved to new factory at present address due to its business expansion.
March 1986	Technical joint venture with KOITO Manufacturing Co.,Ltd Japan to produce automotive lighting equipment. In June of the same year, also capital joint venture with KOITO to establish Thai Koito Co.,Ltd.

December 1986	Joint venture with AP Honda Motor Co.,Ltd and Takahashi Seiki Co.,Ltd Japan to establish a company named Bangkok Seiki Co.,Ltd for manufacturing Mold (now changed to Bangkok Tools & Mold).
February 1990	Technical joint venture with Yanagawa Seiki Co., Ltd. Japan to support Diecasting production technique.
October 1991	Bangkok Alloy Enterprise Co.,Ltd (BAE) was established to increase Machining and Painting production capacity for aluminium. Co.,Ltd or BTM)
January 2001	BDI & BAE achieved Certificate of ISO 9002 from BVQI.
March 20, 2001	Technical Joint-Venture in Plastics Molding and parts production with Takagi Seiko Corporation, Japan.
September 2003	BDI & BAE received Certificate of ISO 9001 : 2000 from BVQI.
April 2005	First start new Plastics Painting Plant at Bangplee to support most Motorcycle & Automotive Customers' Plastics Parts.
June 2007	BDI received Certificate of ISO/TS16949 from URS.
July 2007	Mr. Chang Ming Fong has been appointed to be the new President.
April 2010	BDI received Delivery Award from Thai Honda.
August 2010	BDI received the Outstanding Entrepreneurs Award in Labor Relation and Welfare in 2010 from Department of Labor Protection and Welfare.

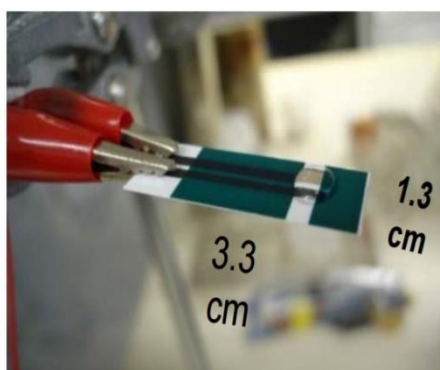
Internship Opportunities at BDI

BDI Group can host students in the fields of Mechanical Engineering, Chemical Engineering, and Information Management/Information Technology.

Because BDI is primarily in the business of producing products that require mold design, the company uses sophisticated software to model the flow of raw materials in the mold. The company also uses sophisticated robotics to help streamline the production process. Interned students at BDI will have the opportunity to learn how to use a mold design software called Moldex3D, a plastic injection molding simulation software. Formulations based on plastic raw materials are an important part of BDI's production process. BDI also operates a vocational technical college called T-TEC which produces technicians who can serve the needs of the company. T-TEC is equipped with a pilot factory where students and trainees can have hands-on learning experiences in every aspect of the production of the company.

Sensor Technology Laboratory

(Biosensors and Chemical Sensors Technology Lab) at KMUTT, Bangkhuntien Campus, Bangkok, Thailand



URL: <http://www.pdti.kmutt.ac.th/en/index.php/content/view/17/34/>

Lab Director: Assoc. Prof. Dr. Werasak Surareungchai

Tel.: (+662) 470-7474

Email: werasak.sur@kmutt.ac.th

Advances in electrochemistry and sensor (biosensors and chemical sensors) research and development have come about due to the need to meet the indigenous demands of the food industry, for environmental analysis, and for biomedical applications. Research is carried out in three areas, for which there is a need to develop existing approaches for better performance of the sensors, improve analytical methods and explore possible new applications. The biosensors and chemical sensors technology group can be sub-divided into the following lines of study:

1. *Bio sensors:* Microbial BOD sensors, phenol enzyme biosensors, screen-printed glucose oxidase electrodes, and simultaneous determination of glucose and sucrose.

2. *Chemically modified electrodes*: Biocompatible redox polymer membrane, metal microparticles in polymer films, inorganic film modified electrodes, and nafion-coated probe in viscous/resistive media.
3. *Electroanalytical techniques*: Pulse amperometric detection, artificial neuron networks for interpreting voltammetric data, and stripping analysis.

The following are some current research projects in this group.

- Microbial BOD sensors
- Screen-printed electrodes for blood-glucose determination
- Screen-printed electrode for pesticide detection
- DNA-modified screen-printed electrode for Escherichia coli detection
- Development of solid polymer electrolyte of redox gases using interdigitated array microelectrodes

FOMM (Asia) Co., Ltd.

At KX Building, KMUTT, Bangkok, Thailand



URL: http://fomm.co.jp/wordpress/company_en.html
Bang Lamphu Lang, Thonburi, Bangkok 10600
Tel: (+662) 470-9920

FOMM (First One Mile Mobility), a Japanese company, is exploring the possibilities that electric vehicles offer and developing micro electric vehicles that incorporate new “concepts” to promote their widespread use. Though these are “micro electric vehicles” the company places priority on the basics demanded of any car or namely “drive-turn-stop” and “collision safety” aiming for a level that horizontally specialized car makers can never achieve. The approach taken at FOMM is based on “tech fostered in Japan” to develop an “as yet unseen type of electric vehicle” through “local optimization” focused first of all on marketing in Southeast Asia. Here at FOMM, the company continually provides “vehicles for easy, safe, and comfortable transportation anytime and anywhere” and are totally dedicated to this theme.

So what is
FOMM
all about?

The term “FOMM” signifies “**First One Mile Mobility.**” We want to stress that the car we are creating is especially ideal for giving **the close-range “Mobility”** needed to move that “**First One Mile**” for example **from your home to the bus-train station or from home to the car-share parking spot.** We also want to create a permanent personal feeling with the customer and propose **a whole new way to use these vehicles.** That is what the FOMM concept is all about.

Additional Information:

From KMUTT PR Channel:

<http://www.pr.kmutt.ac.th/pr/sites/default/files/attachment/59-08-02.pdf>

From Bangkok Post (August 15, 2106): Japanese Electric Cars Coming to Thailand Soon

<http://www.bangkokpost.com/learning/advanced/1062141/japanese-electric-cars-coming-to-thailand-soon>

From Bloomberg:

<https://www.bloomberg.com/research/stocks/private/snapshot.asp?privcapId=301563483>