

ITTP at KAIST

Global IT Technology Program
(<http://ittp.kaist.ac.kr>)

Sponsored by

Ministry of Knowledge Economy

Republic of Korea

Korea Advanced Institute of Science and Technology (KAIST)

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I. Introduction

Director's Message

Since the IT industry has become a key asset for the competitiveness of a nation, developing human resources is of great importance for a nation. The Republic of Korea, as one of the leading countries in the IT industry, seeks to play a more active role to meet this demand of the time.

One of the efforts to meet this challenge is Global IT Technology Program (ITTP) offered at Korea Advanced Institute of Science and Technology (KAIST), starting from 2006 with an aim to build global network of IT leaders around the world.

ITTP, sponsored by the Korean Ministry of Knowledge Economy, offers a customized master's and doctoral degree program for government officials, employees of public institutions or senior-level researchers at national research centers working in the IT fields of foreign countries. All the students will receive scholarships, up to 2 years for master's students and up to 3 years for doctorate students.

This program focuses on transferring advanced technologies and business strategies of Korea to the global IT leaders of the next generation. After the education at KAIST, a distinguished university, the ITTP students will acquire not only all the accumulated know-hows of the IT industry of Korea but also the creative abilities to apply learned knowledge and skills to their own countries.

The graduates of the program will receive updates of current developments in the IT fields of Korea through annual or biannual newsletters, and remain networked through regularly scheduled workshops and forums.

Until now 62 of IT-related government officials from 38 different countries from all over the world have joined this program, and experts from more countries are expected to join in time to come.

You are invited to become a part of this great opportunity and achieve your dreams here at ITTP.

November 2009

Jaejeung RHO, Director of ITTP

History

- 2006. 2: Global IT Technology Program Opened
- 2006. 2: 13 of 1st Batch of ITTP Fellows Entered
- 2006. 8: 11 of 2nd Batch of ITTP Fellows Entered
- 2007. 2: 10 of 3th Batch of ITTP Fellows Entered
- 2007. 2: 1st Vietnam Hanoi International Conference Held
- 2007. 8: 6 of 4th Batch of ITTP Fellows Entered
- 2007. 9: Uzbekistan International Conference Held (Tashkent Univ.)
- 2007. 11 : 2nd Vietnam Hanoi International Conference Held
- 2008. 2 : 9 of 5th Batch of ITTP Fellows Entered
- 2008. 2: 1st ITTP Commencement Ceremony (7 Masters)
- 2008. 6: 2008 Tunisia International Conference Held
- 2008. 8: 5 of 6th Batch of ITTP Fellows Entered
- 2008. 8: 2nd ITTP Commencement Ceremony (14 Masters)
- 2009. 2: 7 of 7th Batch of ITTP Fellows Entered
- 2009. 2: 3rd ITTP Commencement Ceremony (4 Masters)
- 2009. 8: 4th ITTP Commencement Ceremony (4 Masters)
- 2009. 8: 9 of 8th Batch of ITTP Fellows Entered

Vision

Vision	World's Top IT Education Program for Future Global IT Leaders
Mission	Educating IT experts, building a global ICT network and developing global collaborations among countries
Initiative	<ul style="list-style-type: none">- To improve the living condition of all the countries. Information and Communication Technology (ICT) is a driving force of the 21st Century.- To enhance the Digital Opportunity of all the countries. ICT means sharing literally.- To provide mutual benefits to all the countries. Collaboration is a key paradigm in the future global stage.

About KAIST

▣ Establishment

Korea Advanced Institute of Science and Technology (KAIST) was established in 1971 as the nation's first graduate school specializing in science and engineering education and research. The school's founding was a catalyst for Korea's rapid rise from a producer of light industry goods to a world leader in high-technology industries.

Research emphasis from the outset has been put on both theoretical and applied studies. KAIST continues to be Korea's foremost center for mid- to long-term strategic R&D projects with national and international significance. The University has pioneered the establishment of competitive graduate school programs in Korea.

▣ Educational System

KAIST recruits students on the basis of their overall high-school grades, math and science grades, teacher recommendations, study plan, personal statement, and other data that demonstrate their excellence. Scores from the state-run scholastic aptitude test are not considered. KAIST is currently making changes in the admissions policy with special emphasis on personality, responsibility, and creativity. This multi-pronged and flexible admission procedure enables KAIST to recruit students of well-rounded personality.

KAIST has produced many young doctors in their 20s through the Integrated Master's and Doctoral Program and Early Completion System. KAIST requires

candidate students to publish their papers in globally renowned academic journals to ensure high quality of their doctoral dissertation. KAIST students take strongly research-oriented classes in which teaching and research activities are simultaneously conducted.

Scholarships are given to all students in the bachelor's, master's and doctorate programs. Doctoral students are exempted from Korea's compulsory military service duty. On-campus dormitories are provided for all students who wish to use them.

▣ Research Institute

Research at KAIST focuses on basic science and technological innovation that will have the greatest impact on industrial society. Eight KAIST Institutes (KIs) have been set up to concentrate the University's research capabilities in advanced fields. Each KI is operated as an independent research center at the level of a college, receiving financial and facility support. The eight research institutes are KI for BioCentury, KI for Information Technology Convergence, KI for Design of Complex Systems, KI for Entertainment Engineering, KI for the NanoCentury, KI for Eco-Energy, KI for Urban Space and Systems, and KI for Optical Science and Technology.

KAIST is currently conducting research projects commissioned by the government and private businesses with research grants totaling 463 billion won (US\$320 million). In terms of ownership of intellectual property rights, KAIST holds 2,694 domestic patents and 723 international patents.

▣ International Exchanges

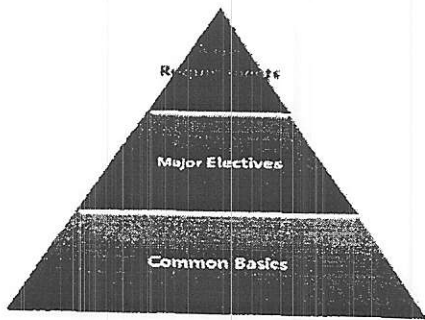
A goal of KAIST is to globalize academic and research activities and produce creative global leaders equipped with international experience. KAIST has a wide range of international exchange and cooperation programs, hosts international academic conferences, workshops and symposiums, exchanges professors, research personnel and students with overseas universities, and conducts international joint research projects.

Memorandums of understanding and other forms of agreements have been signed with 102 universities in 30 countries for academic collaboration and exchanges. Approximately 600 students are exchanged annually with overseas partner universities. Among them are the Georgia Institute of Technology (USA), the University of Waterloo (Canada), the University of Melbourne (Australia) and INSA de Lyon (France).

II. Education

-Curriculum

ITTP specially designed a customized curriculum to meet the demands of multinational government officials and help them acquire extensive knowledge in all the IT fields which global IT leaders must have. Students are able to choose their major either Engineering or IT management according to their interests.



.Major Requirements are composed of two core subjects, one selected from the engineering field and one from the IT-business field to produce global IT leaders who are equipped with superior management capabilities as well as comprehensive technological skills in the field of IT.

.Major Electives are representative courses of ITTP focusing on Korea's IT technologies and strategies. Professors from the Engineering and IT-Business tracks will jointly develop courses, creating a framework that combines Korea's IT technology and business models. In addition, two or three professors teach one course sequentially in order to effectively present various issues related to the specific field of technology in Korea's IT industry.

.Common Basics are designed to enhance comprehensive understanding of other culture, history and languages. To further improve English language proficiency, various English courses are offered. Also the Korean traditional martial art, Taekwondo, will be taught.

-Course list

Items	Course Title	Cre.	Required Credits for Graduation		
			Master (Non-Thesis)	Master (Thesis)	Ph.D.
Common Basics	<ul style="list-style-type: none"> - Korean Speaking/Reading /Advanced Reading I, II - Korean Grammar - Korean History and Culture I, II, III - English I, II, III - Taekwondo I, II, III, IV 	1	10	10	10
Major Electives	<ul style="list-style-type: none"> - Wireless Communications Technology in Korea - Ubiquitous Computing in Korea - BcN Technology in Korea - Multimedia Technology in Korea - Software Engineering in Korea - ICT Economics and Management - Internet Business and Management - IT Technology Management and Policy - Strategy and Organization in Venture Business - Financial and Accounting Management in IT Policy - To choose from a wide range of engineering or IT-business courses offered at KAIST according to students' interests 	3	21	18	33
Major Requirements	<ul style="list-style-type: none"> - Introduction to the Latest IT Technology R&D in Korea - Introduction to IT Technology Management/Policy in Korea - Seminar I, II, III 	3 3 1	9	9	9
Research Credits	<ul style="list-style-type: none"> - Country Report for Non-thesis - Research for Thesis - Research for Ph.D Dissertation 		6	9	24
Total Required Completion Credits			46	46	70

-Degree requirements

Degrees to be Granted

Master of Engineering (Thesis)

Master of Engineering (Non-thesis)

Master of IT Business (Thesis)

Master of IT Business (Non-thesis)

Doctor of Philosophy

Degree requirements

	Master's	Doctorate
Required Credits	46	70
Research Paper	Country report or thesis	Dissertation
English Proficiency	TOEFL IBT 79 or corresponding proficiency	TOEFL IBT 88 or corresponding proficiency
GPA (Grade Point Average)	3.0 or better out of the maximum 4.3	

-Special Programs

Invited Seminar

Every semester 7 or 8 of Korean IT professionals are invited and give a lecture on the current IT issues covering a variety of practical topics which cannot be learnt from classes. Also this seminar provides ITTP fellows with more network opportunities with Korean governments or industries such as Samsung Networks, KT, ETRI, NIA, etc.

Summer Internship

In the summer, 8 weeks internship program is held in ETRI(Electronics and Telecommunications Research Institute), the No. 1 IT research institute of Korea or PPS(Public Procurement Service). Each participant is assigned to a research team of his/her interest, being supported by one research advisor and one mentor system. Through this internship program, ITTP fellows are able to discuss their countries' IT problems with the world top Korean IT researchers while building a close network with them. At the end of internship, "Global Day", a networking culture activity is held to introduce each other's culture and status of IT technologies.

Industry Visits/Korean Culture Tours

Industry visits are held to take a view of the scene of current IT industry of Korea such. Also ITTP offers several field trips to Korea's traditional sites to experience and understand Korean culture and history.

III. Global Network

Global IT Forum

International Conference

ITTP co-organizes an international conference with international institutions every year with an aim to expand its global ICT network and boost collaborations among countries while sharing ITTP research accomplishments with others. Since 2006, ITTP has continued to hold international conferences in Vietnam, Uzbekistan, Tunisia and Egypt.

Seoul Global IT Forum

ITTP network will be tightly formed and strengthened through Seoul Global IT forum which invites ITTP alumni to Korea even after graduation.

-Statistics

Number of ITTP Fellows by Region (as of 2010 Fall)

Region	No. of Students	No. of Countries	Country
Asia	30	13	Vietnam, Mongolia, Laos, Bangladesh, Pakistan, Nepal, Indonesia, Thailand, Bhutan, Sri Lanka, Afghanistan, Cambodia, Myanmar
Africa	18	9	Nigeria, Morocco, Egypt, Tunisia, Algeria, Ghana, Kenya, Ethiopia, South Africa
East Europe & CIS	12	7	Uzbekistan, Azerbaijan, Czech Republic, Bulgaria, Moldova, Kazakhstan, Kyrgyz Republic
Central & South America	11	7	Chile, Costa Rica, Brazil, Ecuador, Peru, Colombia, Dominique Republic
Middle East	7	5	Jordan, Yemen, Syria, Oman, Qatar
Total	78	41	

IV. Scholarship

All the ITTP fellows will receive scholarships up to 2 years for master's degree fellows and up to 3 years for doctoral degree fellows.

Scholarship Details

- Tuition fee
 - One-way airfare (Economy class)
 - Living cost (1,500,000 Korean won per month)
 - National medical insurance
 - Initial moving and re-location expenses
- * 1,150 Korean won = (approximately) 1.00 US dollars (as of 2009).*

Number of Scholarship Recipients

Course	2006	2007	2008	2009	2010	Total
Master	20	10	6	12	continued	48
Ph.D.	4	6	8	4	continued	22
Total	24	16	14	16	continued	70

V. Campus Life

ITTP Facilities

ITTP provides the state-of-the-art facilities for ITTP fellows including laboratory, video-conference room, cyber classrooms and global lounge.

- Each fellow will be provided an individual desk and computer of best quality in the ITTP lab.
- Cyber classrooms are equipped with topnotch online education environment that offer students a chance to review lectures as needed even after graduation.
- Global lounge is specially arranged next to the ITTP lab as a space of rest and networking among ITTP fellows, and also as a exhibition place for traditional souvenirs from ITTP countries.

Dormitory

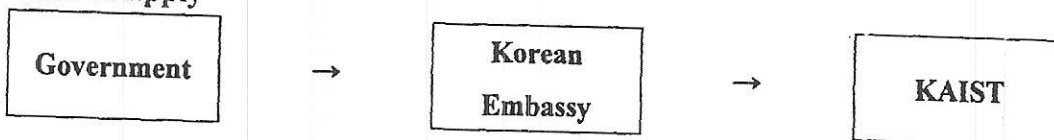
- School dormitory housing will be arranged for the students, but the rent will not be included in the scholarship.
- The dormitory building is located on Hwa-am campus and is 10 minutes away from Munji campus (Main Building). The university provides shuttle services for the students staying at the Hwa-am dormitory.
- Each unit is shared by two occupants of the same sex and furnished with a desk, a bookcase, chair, bed, and closet. In addition, each unit is equipped with a phone (1 line), LAN (2 lines), heating and cooling systems, and a bathroom.
- Phone calls on campus and within Daejeon area are free, and LAN services are also provided for free.
- The common amenities include a laundry room on each floor, a kitchen with a microwave, oven, and sink on every other floor, a recreation room with table tennis and pool tables, and a lounge.

VI. Admissions

Qualifications

- Government officials, employees of public institutions or senior-level researchers at national research centers working in the IT-related fields
(Employees from private institutions cannot apply.)
- Educational Background: A bachelor's or master's degree in the IT-related area
- English Proficiency: TOEFL (PBT 500/CBT 173) / IELTS(5.0) score or the equivalent

How to apply



- Students who wish to apply to ITTP must submit their application to the Korean Embassy in their country after being officially recommended by his/her government.

Timetable for ITTP Admissions

Admission Seasons	Spring Semester	Fall Semester
Application Deadline	End of September	End of May
Evaluation	October	June
Acceptance Notification	Beginning of November	End of June
Start of Semester	February 1st	September 1st