

□ Brief History

Korea Advanced Institute of Science and Technology (KAIST) has developed into one of the best science and engineering colleges in the world. KAIST was established under the name of Korea Advanced Institute of Science (KAIS) under a special law in February 16, 1971 as the first research oriented graduate school in science and engineering in Korea with the purpose of developing scientists and engineers to advance science and technology, develop R&D based on national policies and support national research/industries. In 1989, KAIST established the education/research system of special talents in science and engineering fields in bachelor, master and doctoral degrees, and KAIST has succeeded in greatly contributing to the innovation of science and technology and improving international competitiveness by serving as a model institute that advanced science and technology performs high-end research, and being the birthplace of venture companies.

KAIST was able to achieve its goals quickly by utilizing the tradition of special science and engineering fields, know-how and strengths accumulated on the basis of self-regulated and flexible academic affairs under the special law in a way to introduce the advance academic system that includes world's first Design Synthesis education, entrance system for good personality and creativity, English immersion education, and dual degree program with other world's leading universities. KAIST has led other colleges and research institutions in Korea by its successful model operation and during the last 4 decades, KAIST has produced 11,341 bachelors, 22,796 masters, 8,578 doctorate holders (with 41% of them being in their twenties) giving a total of 42,715 alumni.

2011 QS World University Rankings placed KAIST as 90th overall, 57th in natural science and 27th in engineering and IT, and 2011 THE QS World University Rankings placed KAIST overall 94th and engineering 40th. Also, KAIST was placed 7th in QS Asian University Rankings in partnership with The Choson Ilbo newspaper in Korea and ranked 1st place overall for 4 consecutive years Korea University Rankings by Jungang Ilbo. KAIST online electric bus, electric vehicle and humanoid "HUBO" were introduced by the CNN's program 'Eye on South Korea' on September 2009, and OLEV (On Line Electric Vehicle) was selected as top 50 world best invention as the world's only online electric vehicle. On January 2011, KAIST was invited to Swiss World Economic Forum and made a special speech on 'Smart Mobility: The Future Today'. On April 2011, KAIST succeeded automated docking at sea through mobile harbor project. This was great opportunity for introducing green growth technology of KAIST.

KAIST has established 'KAIST Vision 2025' as a long term development strategy in order to look back the past 40 years of the history of KAIST and contribute to the development of country and to the whole mankind. 'Knowledge Creation & Technology Innovation' is presented as a vision of KAIST and 'The World-Leading S&T University in Knowledge Creation' was set as a goal.

The goal was divided into 4 parts as education, research, cooperation and management and detailed goals were presented such as whole-person convergence education opening the future, creative research leading change and innovation, development through harmony and cooperation and providing environment for the sustainable growth of KAIST.

Also, passion, creativity and truth were set as core values and 12 strategic directions were presented such as training holistic global leader, Education 3.0, attracting outstanding professors and students, research for the entering G7 country, research transcending the limit of knowledge, improving the research efficiency, mecca for corporate-academy cooperation, building global network, serving for the mankind, sustainable growth plans, master plan for strategic infrastructure and smart management. 34 core strategies were prepared as well.

In the field of education, KAIST aims the followings; providing environment which individuals' potential can

be maximized, nurturing creativity and convergence thinking by debates and problem solving and developing social responsibility as future leaders. Specially, in order to nurture holistic leaders in science&technology who can lead the creation of new knowledge, KAIST is developing education programs such as holistic leadership education, DaVinch fusion creative education, EDDKA (Education through Digitized Discrete Knowledge Acquisition), smart education system, periodic personnel system, KAIST² Power-up Plan, program of discovering and attracting creative talented people and nurturing them, providing stable environment for study.

Important discoveries in science and technology can be made by chance during the research of fulfilling personal intellectual curiosity, but they are more likely to be made during the study of problem solving that society is in need. Therefore, KAIST is trying to solve the problems that mankind is facing currently through researches. KAIST is leading researches for the future of the nation, society and mankind based on creativity such as research for personally customized medical and health care industry, research for sustainable green growth industry, research for information knowledge industry, research for national defence and security industry, Big Question project, supporting young researchers program, digging out and supporting high risk researches, promoting virtuous cycle in researches, securing and nurturing specialized researchers, taking lead of national large collaborative researches.

In terms of cooperation, KAIST is contributing in nurturing human resources and development of national industries by industry-academy cooperation and creating environment for establishment of business. Increasing number of foreign professors and students are in KAIST, forming global network. Also, members of KAIST are encouraged to participate in social services. To achieve the followings, KAIST will prepare S&T Hub for the development of industries, make ideal environment for education/research/establishment of business, build national competitiveness center, form multi-cultural campus, make KAIST Supremacy Challenge, make global servant leadership program, nurture opinion leader for the people, construct lifelong education center.

In the past 41 years, KAIST was known to be excellent in research and education, practical in solving the problems of real life, and agile in leading the innovation. To improve the international competitiveness in the future, KAIST is required to raise the fund up to the level of the funds of competing international universities, prepare self-sustaining growth method and receive more administrative and financial support from government. To overcome these problems, KAIST will make 1 billion dollars of development fund, make and manage 1 billion dollars of refillable research fund, install ubiquitous information system, prepare master plan for green campus, prepare global multiversity plan, settle the system of autonomous responsible management by department and performance management system, impose AMP based administration advancement system.

KAIST will strengthen the accomplishments from past and will endlessly challenge for the dreams visualized by Vision 2025.

□ Purpose

- ▷ Fostering of advanced scientists and engineers with in-depth theoretical knowledge and an ability to make practical applications
- ▷ Mid- to long-term research and development in line with state policies; and basic/applied research for enhancing Korea's scientific and technological potential
- ▷ Research assistance for other research institutions and enterprises

□ Educational Objective

By spearheading the effort to develop science and lead technological innovation through education and research, KAIST shall educate talents in science and technology fields to have excellent capacity and leadership so that they may contribute to the country and society, and display creative and practical minds.

□ Timeline

- ▷ 1971. 02. 16 Establishment of Korea Advanced Institute of Science(KAIS) (Hongneung Campus, Seoul)
- ▷ 1973. 03. 05 First entrance ceremony for the master's program
- ▷ 1975. 08. 20 First graduation ceremony for the master's program(92 masters)
- ▷ 1975. 09. 12 First entrance ceremony for the doctoral program
- ▷ 1978. 08. 19 First graduation ceremony for the doctoral program(2 doctors)
- ▷ 1981. 01. 05 Establishment of Korea Advanced Institute of Science and Technology(KAIST) merged with KIST
- ▷ 1984. 12. 31 Amendment and promulgation of Korea Advanced Institute of Science and Technology Act (Law 3778)
(Creation of undergraduate course and foundation of colleges for the education of undergraduate students)
- ▷ 1985. 06. 11 Promulgation of provisions on organization of Korea Advanced Institute of Science and Technology and operation of undergraduate course
(Accountings, human resource management will be operated independently from the KAIST)
- ▷ 1986. 02. 27 First entrance ceremony of the Korea Institute of Technology (KIT)
- ▷ 1989. 06. 12 Separation from KIS
- ▷ 1989. 07. 04 By promulgation of amended act, undergraduate course regulations of KAIST and KIT are unified
- ▷ 1989. 07. 04 KAIST is merged with Korea Institute of Technology(relocation to Daedeok Campus)
- ▷ 1990. 02. 17 First graduation ceremony for bachelor's program(395 bachelors)
- ▷ 1996. 10. 01 Establishment of Korea Institute of Advanced Study
- ▷ 1997. 01. 08 Affiliated Research and Development Information Center transferred from KIST
- ▷ 1997. 12. 05 Establishment of Information and Communications University(ICU)
- ▷ 1998. 03. 02 First entrance ceremony of the Information and Communications University
- ▷ 1999. 03. 31 Affiliated Research and Development Information Center transferred to Korea Research Council of Public Science & Technology
- ▷ 1999. 08. 26 First graduation ceremony for the master's program (12 masters)
- ▷ 2001. 08. 30 First graduation ceremony for the doctoral program (2 doctors)
- ▷ 2002. 02. 23 Opening ceremony of undergraduate course and first entrance ceremony of ICU (105 undergraduates)
- ▷ 2004. 03. 01 Merge of undergraduate school and graduate school of ICU
- ▷ 2004. 05. 04 Affiliated Nano-fab Center installed
- ▷ 2005. 02. 17 First graduation ceremony for undergraduate program of ICU (15 undergraduates)
- ▷ 2009. 02. 06 Incorporation of Korea Science Academy(KSA) as a KAIST-affiliated school
- ▷ 2009. 03. 01 Incorporation of Information and Communications University(ICU)

□ Rules

KAIST Rules <http://rule.kaist.ac.kr/>