


UST

University of Science and Technology, Korea

 April 2020 Edition

National Research
Institutes-based
Graduate University
in South Korea

UST Campuses

Incheon 1

Seoul 2

Gyeonggi-do 3

Chungcheongnam-do 1

Daejeon 21+1

Jeollabuk-do 1

Gyeongsangnam-do 2

Busan 1

UST headquarters



Overview

UST is a **graduate university** operated under the South Korea Ministry of Science and ICT and was co-founded in 2003 by **the 32 National Research Institutes ("NRIs")** which are UST's campuses. The combination of **the excellent researchers** that constitute the faculty of UST and **the superb research facilities at NRIs** makes it possible for UST to provide students with not only the top-level research mentors but also excellent environments for students to engage in **creative research and development**. The UST headquarters in Daejeon is in charge of educational administration for all 32 campuses spread around the country.

Incheon

Korea Polar Research Institute

- Polar Science
- www.kopri.re.kr



Seoul

Korea Institute of Science and Technology

- Division of Nano & Information Technology
 - Division of Bio-Medical Science & Technology
 - Division of Energy & Environment Technology
- www.kist.re.kr



*School

Korea Institute of Radiological & Medical Sciences

- Radiological & Medico-Oncological Sciences
- www.kirams.re.kr



Gyeonggi-do

Korea Institute of Civil Engineering and Building Technology

- Civil & Environmental Engineering
- www.kict.re.kr



*School

Korea Railroad Research Institute

- Transportation System Engineering
- www.krri.re.kr



*School

Chungcheongnam-do

Institute Pasteur Korea

- Division of Bio-Medical Science & Technology
 - *Participation Major
- www.ip-korea.org



Daejeon

Korea Institute of Industrial Technology

- Industrial Technology
- www.kitech.re.kr



*School

Korea Institute of Energy Research

- Advanced Energy and System Engineering
 - Renewable Energy Engineering
- www.kier.re.kr



Korea Research Institute of Chemical Technology
























- Medicinal Chemistry and Pharmacology
 - Advanced Materials and Chemical Engineering
- www.kRICT.re.kr



*School

*Schools are located at 9 campuses which have been authorized by the UST headquarters to operate its own educational system autonomously.



<p>Korea Research Institute of Standards and Science</p> <ul style="list-style-type: none"> • Nano Science • Medical Physics • Science of Measurement <p>www.kriss.re.kr</p>		<p>Korea Institute of Machinery & Materials</p> <ul style="list-style-type: none"> • Nano-Mechatronics • Plant System and Machinery • Environment & Energy Mechanical Engineering <p>www.kimm.re.kr</p>	
<p>Korea Atomic Energy Research Institute</p> <ul style="list-style-type: none"> • Accelerator and Nuclear Fusion Physical Engineering • Radiation Science and Technology • Radiochemistry & Nuclear Nonproliferation • Advanced Nuclear System Engineering • Quantum Energy Chemical Engineering <p>www.kaeri.re.kr</p>		<p>Korea Research Institute of Bioscience and Biotechnology</p> <ul style="list-style-type: none"> • Biotechnology • Bioscience <p>www.kribb.re.kr</p>	 *School
<p>Korea Institute of Geoscience and Mineral Resources</p> <ul style="list-style-type: none"> • Mineral & Groundwater Resources • Geophysical Exploration • Petroleum Resources Technology • Resources Recycling <p>www.kigam.re.kr</p>		<p>Electronics and Telecommunications Research Institute</p> <ul style="list-style-type: none"> • ICT <p>www.etri.re.kr</p>	 *School
<p>Korea Institute of Science and Technology Information</p> <ul style="list-style-type: none"> • Data & High Performance Computing Science <p>www.kisti.re.kr</p>		<p>Korea Institute of Oriental Medicine</p> <ul style="list-style-type: none"> • Korean Convergence Medicine <p>www.kiom.re.kr</p>	
<p>Institute for Basic Science</p> <ul style="list-style-type: none"> • Basic Science <p>www.ibs.re.kr</p>		<p>Korea Aerospace Research Institute</p> <ul style="list-style-type: none"> • Aerospace System Engineering <p>www.kari.re.kr</p>	
<p>Korea Institute of Toxicology</p> <ul style="list-style-type: none"> • Human and Environmental Toxicology <p>www.kitox.re.kr</p>		<p>Korea Astronomy and Space Science Institute</p> <ul style="list-style-type: none"> • Astronomy and Space Science <p>www.kasi.re.kr</p>	
<p>Korea Basic Science Institute</p> <ul style="list-style-type: none"> • Bio-Analytical Science <p>www.kbsi.re.kr</p>		<p>Agency for Defense Development</p> <ul style="list-style-type: none"> • Weapon Systems Engineering <p>www.add.re.kr</p>	
<p>Korea Research Institute of Ships & Ocean Engineering</p> <ul style="list-style-type: none"> • Ship and Ocean Engineering <p>www.kriso.re.kr</p>		<p>National Fusion Research Institute</p> <ul style="list-style-type: none"> • Accelerator and Nuclear Fusion Physical Engineering <p>*Participation Major</p> <p>www.nfri.re.kr</p>	
<p>Korea Institute of Nuclear Nonproliferation and Control</p> <p>www.kinac.re.kr</p>		<p>Korea Institute of Nuclear Safety</p> <ul style="list-style-type: none"> • Nuclear and Radiation Safety <p>www.kins.re.kr</p>	
<p>National Institute for Mathematical Sciences</p> <p>www.nims.re.kr</p>		<p>University of Science and Technology</p> <ul style="list-style-type: none"> • Science and Technology Management Policy <p>www.ust.ac.kr</p>	
<p>Korea Food Research Institute</p> <ul style="list-style-type: none"> • Food Biotechnology <p>www.kfri.re.kr</p>	 *School		
<p>Korea Institute of Materials Science</p> <ul style="list-style-type: none"> • Advanced Materials Engineering <p>www.kims.re.kr</p>		<p>Korea Electrotechnology Research Institute</p> <ul style="list-style-type: none"> • Energy and Power Conversion Engineering • Electro-functionality Materials Engineering <p>www.keri.re.kr</p>	
<p>Korea Institute of Ocean Science & Technology</p> <ul style="list-style-type: none"> • Ocean Science <p>www.kioost.re.kr</p>	 *School		

Jeollabuk-do

Gyeongsangnam-do

Busan

Facts & Figures

Top South Korean papers in the fields of 3D Printing and IoT as ranked by IITP '18

*Institute for Information & Communications Technology Promotion

1



2

Ranked as the 2nd best South Korean university in CWUR '18

*Center for World University Rankings



32

National Research Institutes (campuses) that co-founded UST



Majors in the fields of Natural Sciences, IT, BT, NT, ET, and ST

46



48

Domestic partner universities for credit exchange



56

Countries of origin for international students and graduates

*Seven most represented countries: Vietnam, Pakistan, Indonesia, India, Bangladesh, China, and Ethiopia



Faculty members

1,158



Students

*457 International students

1,358



Graduates

*707 International graduates

*840 Ph.D.'s

2,523



*As of April 1, 2020

Scholarships

As a student researcher participating in national research projects, every UST student receives a full scholarship including a stipend and tuition until graduation.

Monthly Stipend



Ph.D. student

KRW 1,600,000

*Equivalent to USD 1,350

Master's student

KRW 1,200,000

*Equivalent to USD 1,000

Tuition Support



Per semester

KRW 2,500,000

*Equivalent to USD 2,100

*Full tuition

Research Support



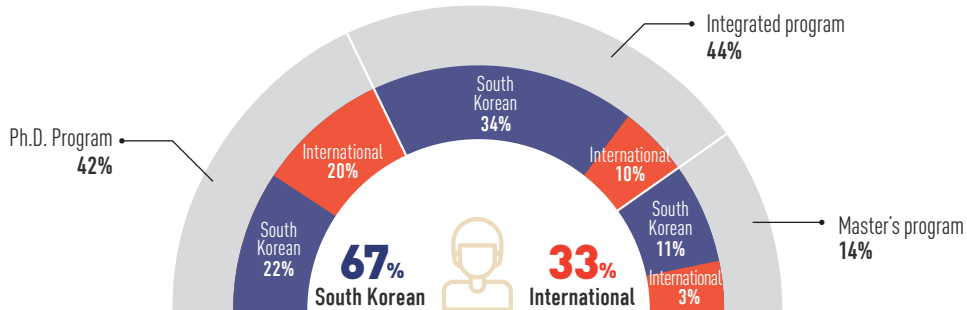
- **Overseas Training Program** up to 90 days of research abroad
- **International Presentation Support Program** to support participation in international conferences for up to 15 days
- **Young Scientist Research Program** to support student-led research projects up to KRW 30 million per project
*Equivalent to USD 25,000
- **Research Paper Award** to honor outstanding research achievements, including research projects and papers

Student Support



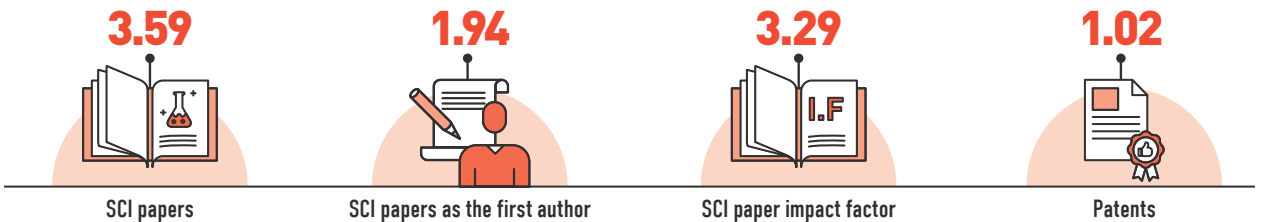
- **Newcomers Odyssey**, an intensive four-week program which all new students must complete before joining UST to support adaptation to South Korean and UST life
- **Student Employment Contract** to protect the rights of students and improve the academic environment
- **Korean Language Courses** including offline and online lectures
- **Student Counseling** for psychological and academic support
- **Academic Coordinators** at each campus for onsite support

Distribution of Students



*As of April 1, 2020

Graduates' Performances



*Average performance graduates who received a Ph.D. degree in 2019

International Programs



- 1 UST offers a summer **global research internship** program in which international students experience our unique education system centered on field research as an intern at one of our campuses under the guidance of a UST faculty member.

- **Period** July-August (2 months)
- **Eligible students** International undergraduates (juniors or higher) or master's students or graduates
- **Monthly stipend**
 - KRW 1,000,000
 - *Equivalent to USD 850
- **Airfare, accommodations** Partial support
- **Research guidance** Academic advisor, mentor
- **Cultural field trip, insurance, and visa**
- **Notes**
 - 58 interns from 31 countries have participated in this program since 2017.
 - Applications are accepted online during the application period which is usually at the beginning of each year.



- 2 UST offers a **job matching program** named "Link U" between UST international students and Korean companies which want to recruit foreign employees for international expansion.

- Castec Korea, Enzychem Lifesciences, KorteK, Lotte R&D Center, Osstem Implant, PDXen, VINATech



- 3 UST has supported the establishment and operation of **overseas alumni associations** for each country in which there are UST alumni.
 - Mongolia (2016-), Vietnam, Indonesia (2017-), India (2018-), Ethiopia (2020-)

- 4 In order to promote UST around the world, UST has named the most outstanding graduates, including government officials, professors, and researchers, from each country as **overseas honorary ambassadors**.

- Vietnam, Indonesia, China, the Philippines (2017-), Ethiopia (2018-), Thailand (2019-)

International Admissions

There are three kinds of **academic programs** for regular international students including Ph.D., Integrated, and master's. The integrated program is a combined master's-Ph.D. program which allows students to receive a Ph.D. degree without submitting a master's thesis.

Degree Academic Program	Ph.D.		Master's
	Ph.D.	Integrated	
Minimum Period	2 years	4 years	2 years
Maximum Period	6 years	8 years	4 years

We recruit new students twice a year for **spring (Mar.) and fall (Sept.) admissions**. Detailed application requirements and procedures are set by the admissions guidelines announced each semester.

Admission	Application Period	Documents Screening	In-depth Interview	Announcement of Successful Applicants
Spring (Mar.)	Aug. - Sept.	Sept. - Oct.	Nov.	Dec.
Fall (Sept.)	Feb. - Mar.	Mar. - Apr.	May	Jun.

*Details are subject to change.

The language of instruction for international students is English. When applying to UST, applicants are required to submit **an official English test score** which has been acquired within the last two years.

Type	TOEFL		TOEIC	TEPS		IELTS
	iBT	PBT		Old *Before May 11, 2018	New *After May 12, 2018	
Minimum Required Score	79	550	730	630	342	6

*English score submission exemption: UST graduates or those who attended more than one year of and acquired a degree from an undergraduate or graduate school located in one of the seven native English-speaking countries (Australia, Canada, Ireland, New Zealand, South Africa, U.S.A., U.K.) are exempt from submitting English scores.

*Those who are planning to acquire a relevant degree before matriculating but fail to do so will have their admissions cancelled.

Specialized International Admissions



① Ethiopian Government Scholarship Ph.D. Program (2019-2022)

To increase the human resources in science and technology at the doctoral level as part of cooperation between South Korea and Ethiopia, UST has established this cost-sharing scholarship program with Ethiopian Ministry of Science and Higher Education. As part of this program, we recruit up to 7 Ph.D. students each year for four years from among faculty members of 11 national universities in Ethiopia.

- 6 students enrolled



② Specialized Master's Program-Ocean Science (London Protocol Engineering Master of Project Administration) (2019-)

As the National Research Institutes-based graduate university, UST has established this program to fulfill its roles and responsibilities and to attract global talent in connection with internationalization strategies such as the national government's New Southern Policy. As part of this program, we recruit students for the London Protocol Engineering Master's of Project Administration in Ocean Science at the Korea Institute of Ocean Science & Technology School.

- 6 students enrolled

*As of April 1, 2020

Overseas Partners



Azerbaijan

- ADA University
- Western Caspian University

Brazil

- Fundacao de Amparo a Pesquisa do Estado de Minas Gerais (FAPEMIG)
- Maranhao Foundation for Research, Science and Technology Development (FAPEMA)
- National Council for Scientific and Technological Development (CNPq)
- Universidade do Vale do Rio dos Sinos (UNISINOS)

China

- University of Chinese Academy of Sciences

Czech

- University of Hradec Kralove

Ethiopia

- Adama Science and Technology University
- Addis Ababa Institute of Technology
- Ministry of Science and Higher Education of the Federal Democratic Republic of Ethiopia

France

- Polytech Group
- Ecole des Mines de Saint-Etienne
- University Nice Sophia Antipolis

Georgia

- Georgian Technical University
- Ivane Javakishvili Tbilisi State University

Germany

- Korea Institute of Science and Technology Europe
- Saarland University

Indonesia

- University of Indonesia

Italy

- University of Sienna

Japan

- SOKENDAI (The Graduate University for Advanced Studies)

Kazakhstan

- Al-Farabi Kazakh National University
- L.N.Gumilyov Eurasian National University
- Center for International Programs, Ministry of Education and Science of the Republic of Kazakhstan

Mongolia

- Mongolian University of Science and Technology

Russia

- Moscow State University of Printing Arts

South Africa

- University of the Free State

Thailand

- Asian Institute of Technology

The Philippines

- Mapua University

Turkey

- Koc University
- Yildiz Technical University

Uzbekistan

- Inha University in Tashkent
- Tashkent Automobile and Road Construction Institute
- Tashkent University of Information Technologies
- Academy of Sciences of the Republic of Uzbekistan

*35 institutions in 19 countries



NRI-based Graduate University in Korea

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