

SKKU At a Glance

Unique Origin, Unique Future



SKKU with 618-Year Tradition

1398

Old Sungkyunkwan Founded in Seoul
Higher educational institution of Joseon Dynasty



1475

Jongyeonggak created
Royal library/archive for books and documentations



1978

Natural Sciences Campus opened in Suwon
First dual campus system in South Korea



1996

Samsung joined University Foundation
Long-term technological and financial support



2015

QS World University Ranking: 118th
Rapid rise in global reputation



A-2 Facts and Figures



Organization

- 2 Campuses: NSC / HSSC
- 15 Colleges: 7 NSC / 8 HSSC



Undergraduate Graduate

- NSC: 8,300 / HSSC: 11,000
- NSC: 3,400 / HSSC: 4,200



Staff

- Academic: 1,400
- Administrative: 1,000



International Student

- Degree-seeking: 1,800
- Non-degree seeking: 1,900



Global Network

- 700 academic collaborations
- 200 student exchange partners



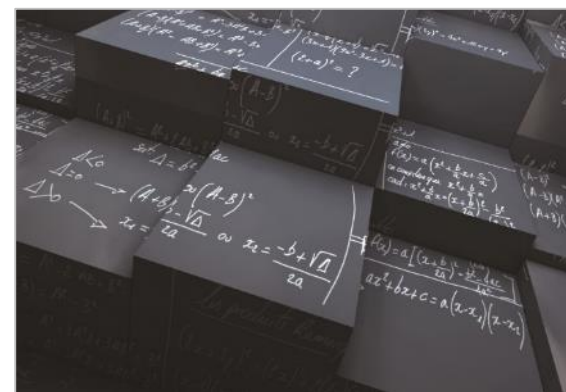
A-3 Natural Sciences Campus

8 Colleges

- **College of Science**
- College of Information & Communication Engineering
- College of Engineering
- School of Pharmacy
- College of Biotechnology & Bioengineering
- College of Sport Science
- School of Medicine
- College of Software

Features

- **IBS Centers: 84 million USD for 10 years each**
 - Center for Integrated Nanostructure Physics
 - Center for Neuroscience Imaging Research
- **Top 1-2% STEM/Medical students nationwide apply**
- **SKKU Advanced Institute of Nanotechnology (SAINT)**
 - World #1 in Graphene Patents / NANO Journal (SCI ranked)
- **On-Campus BASF Research Center established in 2013**



Partnership with Samsung

SAMSUNG

- Funds scholastic and research programs
- Provides expertise through guest lecturers
- Supports SKKU's management and sustainability



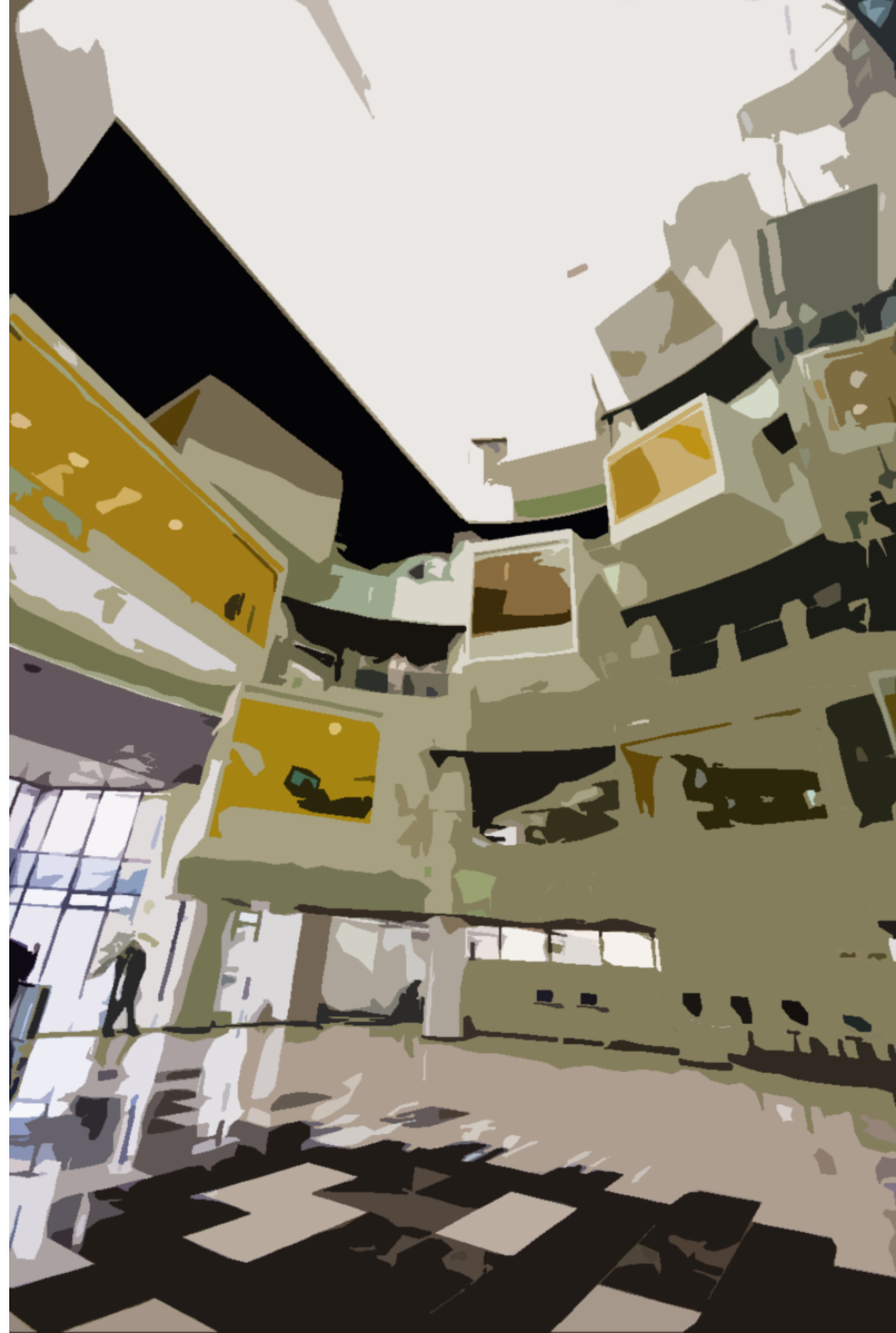
SKKU

- Provides qualified graduates for the work force
- Supplies research facilities and resources

- Joint Research (2013): 258 Projects & 10.7 million USD
- Co-developed programs: software, mobile phone, semi-conductor
- Research project offerings by Samsung Foundation for Future Technology

College of Science At a Glance

What We Create Here Will Become the New Beginning.

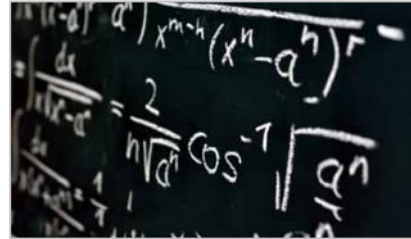


B-1 Academic Disciplines

**Biological
Sciences**



Mathematics



Physics



Chemistry



Interdisciplinary Physics & Chemistry

 **BrainKorea21^{PLUS}**

Proud Winner of BK21PLUS : Biosciences, Math, Physics, Chemistry

B-2 Fact and Figures

*CMP: Combined Master/PhD

Academic Programs

Department	BS	MS	PhD	CMP
Biological Sciences	O	O	O	O
Mathematics	O	O	O	O
Physics	O	O	O	O
Chemistry	O	O	O	O
IPC	X	X	X	O
Duration	4	2	2	6-8
Credit Requirement	130	24	36	51

Student & Faculty

Department	Undergrad	Grad	Faculty	S/F Ratio
Biological Sciences	330	60	22	17
Mathematics	350	30	28	13
Physics	220	75	32	9
Chemistry	300	160	30	15
IPC	-	5	-	-
Sum	1200	330	112	-

B-3 Research Centers



College of Science



Institute for Basic Sciences

Research Center for Basic Sciences

Research Center for
Quantum Materials and Superconductivity

Chemical & Biological Detection Research
Center

Creative Research Initiatives Center
for Smart Molecular Memory

Research Institute of Nanobio Convergence

Institute of Science and Technology in Space

Center for Non-linear Ergodic Theory Studies



BK21 Funded Research Group

Dept. of Biological Sciences

Division for Developing Integrated and Creative
Human Resources in Biological Sciences

Dept. of Mathematics

Creative Human Resources of
Mathematical Science Nurture Division

Dept. of Physics

Division of Human Resource Development for
Next-Generation Leaders in Physics

Dept. of Chemistry

HRD Center for
Creative Convergence Chemical Sciences

Research Areas



- Molecular and Cell Biology
- Organisms and Evolutionary Biology
- Biochemistry and Structural Biology
- Physiology and Developmental Biology
- Plant Biology
- Marine Biology and Ecology
- Biophysics
- Virology
- Microbiology



- Analysis
- Algebra
- Cryptography
- Differential Geometry
- Topology
- Applied Mathematics
 - Biostatistics Probability
 - Complex Dynamics
 - Monte Carlo Simulation



- Condensed Matter,
- Statistical Physics
- Acoustics
- Nanophysics
- Nuclear and Particle Physics
- Astrophysics
- Biophysics



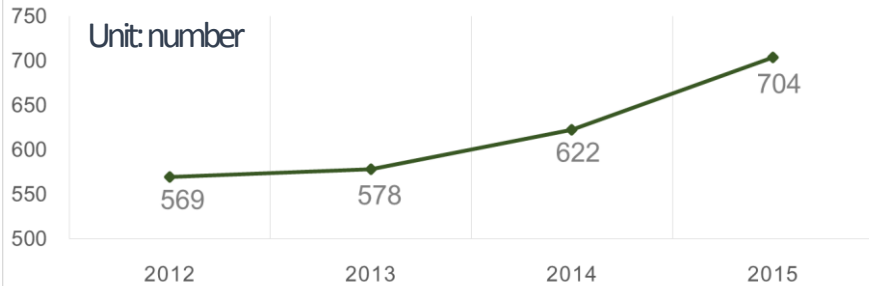
- Energy/Environmental Chemistry
- Catalyst
- Medicinal Chemistry
- Life Science/Biochemistry
- Electronic / Nano-Materials
- Theoretical Chemistry
- Solar Cells

B-4

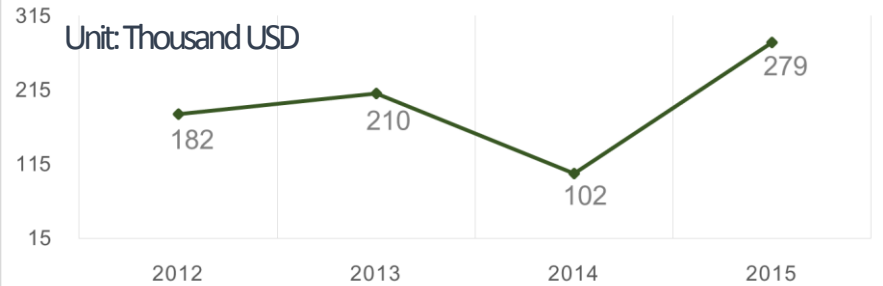
Key Indicators



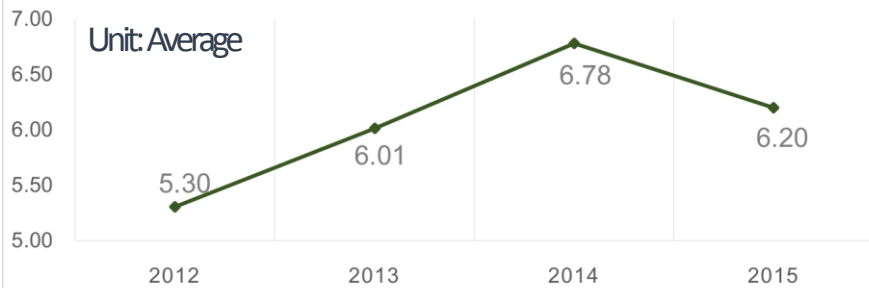
International research paper



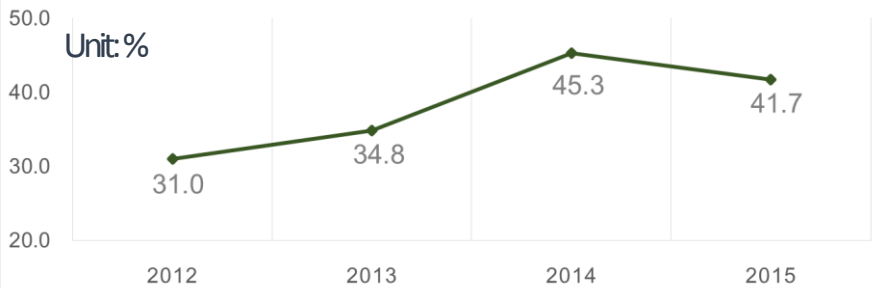
Technology transfer income



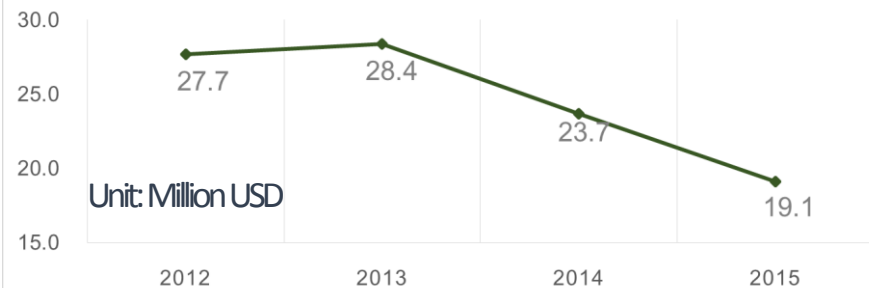
Citation per research paper



Target grad student admission rate



Research funding



Undergraduate dropout rate





45

Academic Collaboration Partners

15

Student Mobility Program Partners

College of Science Global Initiative 2015-2016

- Expanding territory of joint-academic activities and student mobility
- Exploring study/research abroad experiences for science students

SCI-WORLD: Study Aboard Program for Science Students

- Developing student mobility programs with sister universities
- semester exchange, summer lab internship, dual/joint degree program

Student Exchange



THE UNIVERSITY OF
WESTERN AUSTRALIA



TOHOKU
UNIVERSITY



Radboud Universiteit Nijmegen



Linnæus University



GDAŃSK UNIVERSITY
OF TECHNOLOGY



PONTIFICIA
UNIVERSIDAD
CATÓLICA
DEL PERÚ



National
Taiwan
University

Laboratory Internship



INDIANA UNIVERSITY



Dual Degree



B-6 Future Possibility

❑ Laboratory Internship Program

- Semester-based or summer/winter science laboratory internship

❑ Student Group Invitation

- Scholastic and research student group's scientific visit to SKKU

❑ Faculty-led Program

- Host tailored faculty-led study abroad embedded in SKKU coursework

❑ International Joint-research Activity

- Individual or organized international collaborative research in natural sciences

❑ Traditional Programs

- Regular semester-based student exchange for earning credits
- 2+2/2+3 dual or joint degree

Thank You

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