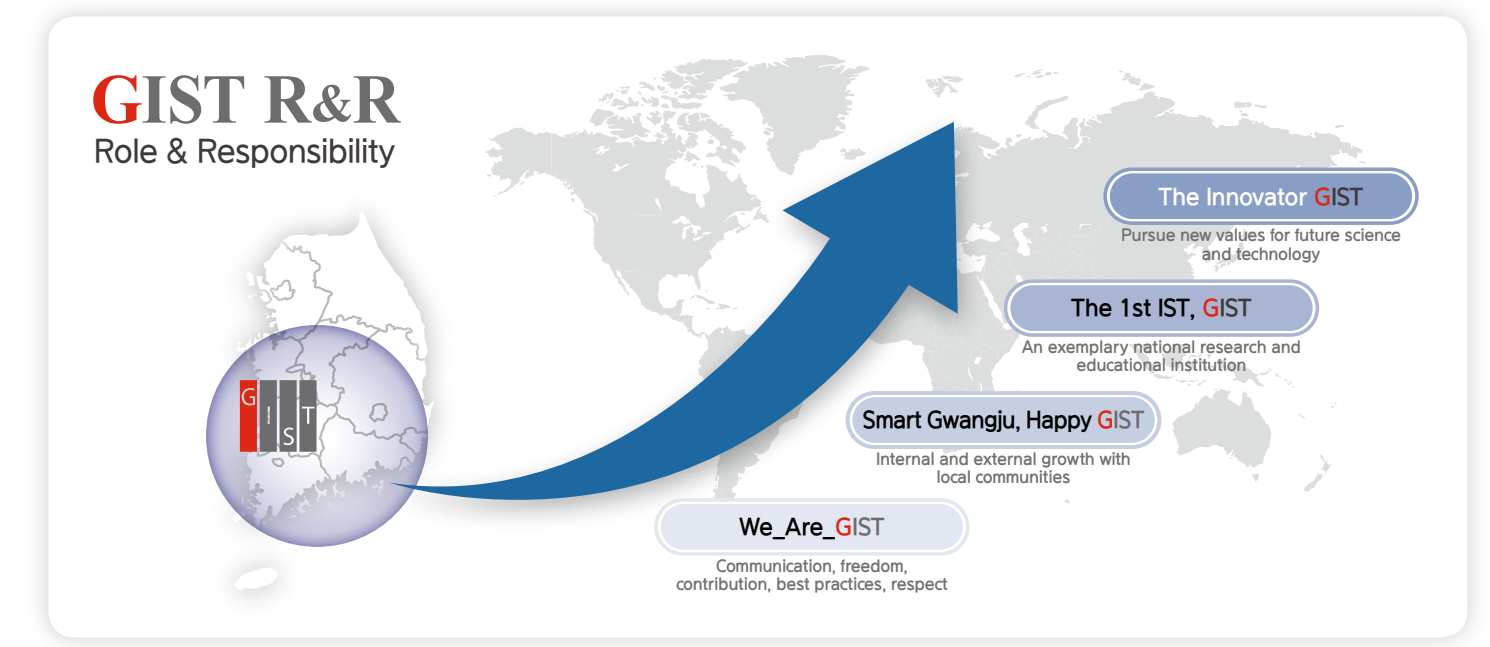
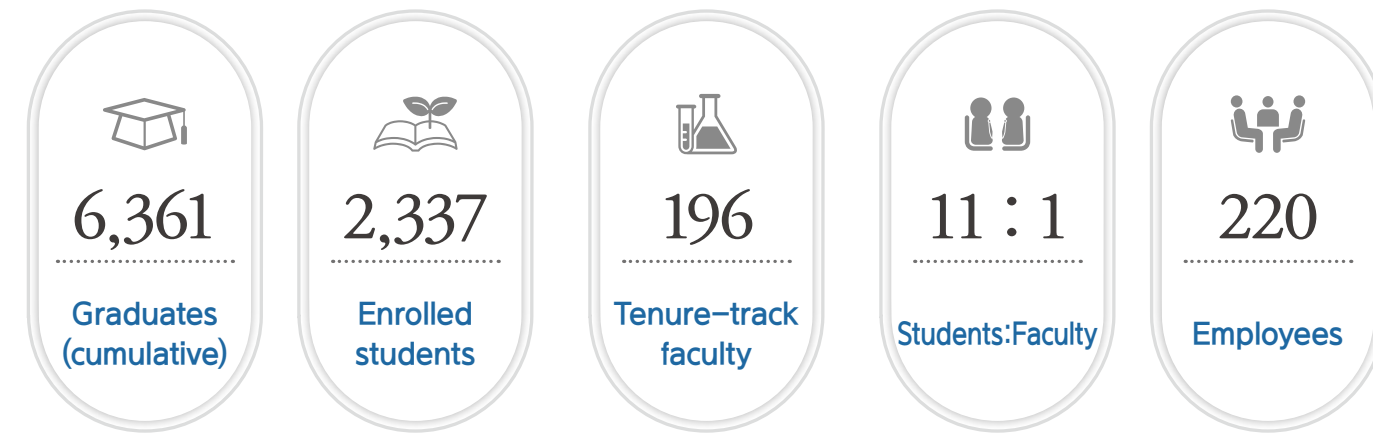


# VISION



# Overview



Enrolled students	Bachelor's	Master's	PhD	Combined MS/PhD	Total	() refers to Internationals
	969(1)	374(41)	584(66)	410(17)	2,337(125)	

Staff	Faculty	Researcher	Employee	Total
	196	29	220	445

Facility	Total area 630,741.9m <sup>2</sup> (495,865.9m <sup>2</sup> for graduate school, 134,876m <sup>2</sup> for college)	
		Building 257,411.16m <sup>2</sup> (including 2,314m <sup>2</sup> for APT complex outside GIST)

No. of graduates	Bachelor's	Master's	PhD	Total	() refers to Internationals
	672	4,286(301)	1,403(137)	6,361(438)	

※ As of Mar. 1, 2020

# Global GIST

**An exclusive partner with Caltech among universities in Korea**

- Signed a GIST-Caltech MoU for exchange and cooperation (Oct. 11, 2012)
- Established the GIST Caltech Research Institute(GCRI), a joint research center
- Student exchange programs, credit granted for Caltech regular courses/Caltech tenure-track faculty invitation
- Presentation of research outcomes at annual GIST-Caltech Workshop
- GIST-Caltech student exchange programs during summer session
- Caltech SURF

**Global Campus**

- Erasmus Plus
- Global Lounge
- Global Intern Program (GIP)
- Student Exchange (Mobility) Program
- Mandatory submission of graduation thesis in English
- The percentage of foreign students and faculty has exceeded 10% of the total since its inception
- Supported students to complete their studies at world renowned universities in S&T (Caltech · UC Berkeley · Boston University (US), University of Cambridge (UK), Technion - Israel Institute of Technology, etc.)

# Main Achievements

## TOP5

in QS World University Rankings 2020

Ranked the world's 5<sup>th</sup> in Citations per Faculty by Quacquarelli Symonds (QS)/1st in Korea for 12 consecutive years

**4<sup>th</sup> Industrial Revolution Convergence**

**Startup Technology Commercialization**

**Social Contribution & Community Engagement**

Rank	Name of Institute	Country
1	King Abdullah University of Science and Technology	Saudi Arabia
2	Indian Institute of Science	India
3	Princeton University	USA
4	California Institute of Technology	USA
5	Gwangju Institute of Science and Technology	Republic of Korea

- Ranked 46<sup>th</sup> in the Times Higher Education (THE) Young University Rankings (under 50 years)/ 4<sup>th</sup> in Korea
- Ranked 33<sup>rd</sup> in Asia in the World's Most Innovative Universities 2019/11<sup>th</sup> in Korea (by Thomson Reuters)
- A project to build an AI-based industrial convergence complex has been finalized
  - KRW 406.1B will be spent over the next 5 years to establish an AI-based startup cluster in the Gwangju Science Valley District 3
- Develop core technologies to lead the 4th Industrial Revolution
  - Carry out GIST Innovative (G.I.) 4.0 studies
- Establish and operate Institute of Integrated Technology

**Best entrepreneurial index of 4-year colleges in Korea for 3 consecutive years (2017-2019 MK Economy)**

- 1<sup>st</sup> in entrepreneurial infrastructure/performance (2019, entrepreneurial index of 4-year colleges by MK Economy)
- 1<sup>st</sup> in technology transfer/student startup rate (2019, engineering college assessment by Korea Economic Daily)
- Grand Prize for Korea Social Contribution Awards in 2018
  - Established a social contribution group and carried out programs for community engagement both in Korea and overseas

# GIST Research Institute

**APRI**

Advanced Photonics Research Institute

- Established in 2001, to develop science and technology by focusing on outstanding R&D in photonics and photonic technologies and fostering photonics experts
- Built on the world's best research facilities that includes a 4.2 PW laser system, conduct basic studies on laser-plasma interactions, elec trons, par tide acceleration, x-ray generation, femtosecond laser spectroscopy, and THz optics

**RISE**

Research Institute for Solar and Sustainable Energies

- Established in 2009 to secure original technologies for new and renewable energies and to promote their commercialization
- Respond to climate change, future energy crisis and environmental problems, carry out R&D activities and convergence study for next-gen smart energy community including next-gen solar cells, energy storage/operation system as essential technologies for the future

**KCTI**

Korea Culture Technology Institute

- Established in 2013
- To conduct research and development activities on combined technologies with cultural industries based on interdisciplinary exchange and convergence among science and technology, design, culture and arts, humanities and social sciences in accordance with article 17-5 (Designation, etc. of Supervising Institute for Research of Cultural Technology) of the Framework Act on the Promotion of Cultural Industries

**ARI**

Aging Research Institute

- Life Aging Convergence Research Institute was founded in 2013 and was renamed as Aging Research Institute and its organization was expanded in 2015
- Uses extensive and multidisciplinary approaches to identify aging symptoms and pathology of senile disorder to respond to challenges of a super aging society, control the aging process, and develop original technologies for age-friendly business

**IERI**

International Environmental Research Institute

- Established in 2001 as a UN University Institute at GIST
- IERI has conducted multiple joint international environmental studies to foster environmental experts, support the development of technologies to tackle challenges of climate change at home and abroad, and contributed to the improvement of the global environment and human well-being

**GIAI**

GIST Institute for Artificial Intelligence

- Established in 2017 to serve as a leading research institute in future AI R&D efforts
- GIAI leads global R&D in the era of 4th Industrial Revolution and aims to solve various social issues based on AI research and drive innovative growth of Korea and local communities by successfully completing the 'creation of an AI-based industrial convergence complex (national agenda for local communities)'

**GTI**

GIST Technology Institute

- Established in 2005, GIST Technology Institute supports IPRs and R&D for commercialization of promising technologies owned by GIST, technology transfer and commercialization, and serves as a hub for startups to contribute to the national economy and industrial development by spreading GIST research outcomes.

Technology Commercialization Center	GIST Business Incubator	Business Support Center
<ul style="list-style-type: none"> <li>• Established in 2005, GIST Technology Institute supports IPRs and R&amp;D for commercialization of promising technologies owned by GIST, technology transfer and commercialization, and serves as a hub for startups to contribute to the national economy and industrial development by spreading GIST research outcomes.</li> </ul>		

**CoReLS**

Center for Relativistic Laser Science

- Established 2012, Center for Relativistic Laser Science (CoReLS) of IBS has studied femtosecond PW laser technologies, relativistic laser-material interaction, physical symptoms transcending in time and space
- In 2016, CoReLS developed a 4PW laser system for the first time in the world, resulting in remarkable progress in research, including high-energy particle acceleration of electrons and photons, and attosecond atom and molecule kinetics

**NRC** Nobel Research Center

- Nobel laureates serve as heads of NRCs to conduct joint studies with GIST researchers
- Improve research capabilities through constant exchanges with great scholars of the world

**Heeger Center for Advanced Materials**

Alan J. Heeger  
Nobel Prize in Chemistry (2000)

**THE Ertl Center for Electrochemistry and Catalysis**

Gerhard Ertl  
Nobel Prize in Chemistry (2007)

**SCSB**

**Steitz Center for Structural Biology**

Thomas A. Steitz  
Nobel Prize in Chemistry (2009)

**Grünberg Center for Magnetic Nanomaterials**

Peter A. Grünberg  
Nobel Prize in Physics (2007)

**Amano Center for Advanced LEDs**

Hiroshi Amano  
Nobel Prize in Physics (2014)

**Grubbs Nobel Research Center**

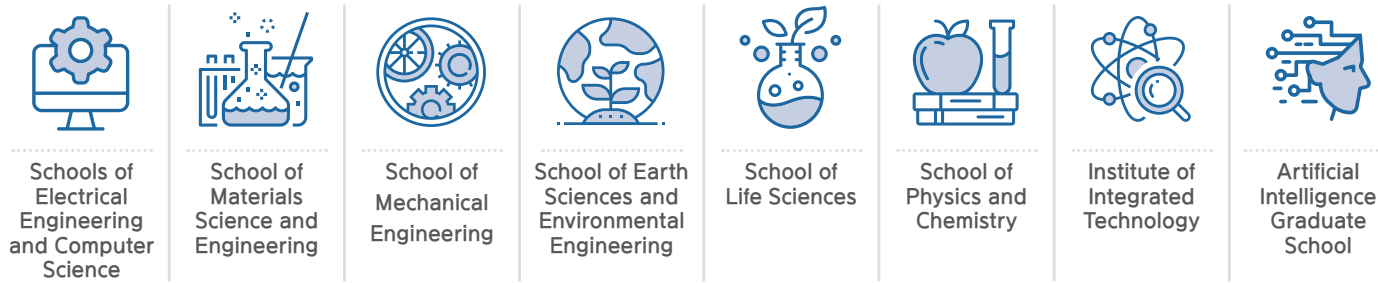
Robert H. Grubbs  
Nobel Prize in Chemistry (2005)

**ALFRED NOBEL**

# Graduate Schools

GIST Leads the 4<sup>th</sup> Industrial Revolution of Science and Technology in Korea

## Schools and Departments



## Key Features

- Small group learning**  
Ratio of students to professors **11:1**
- Provide short/long-term overseas research programs
- Certification of thesis for graduation  
Includes a foreign researcher as a member of PhD thesis review board
- Dual Degree Program**  
An average of **5.39** SCL journal papers per PhD graduate for the first half of 2020
- 10% of PhD graduates are hired as tenure track faculty in major universities both in Korea and overseas

## Scholarships and student welfare programs

- Admission and other educational expenses are fully covered by the government with scholarships  
- Payment of KRW 680,000 admission fee
- Dean's scholarship  
- For outstanding new students taking PhD (combined) programs, admission fees are exempted and GPF scholarships (KRW 1.5M per semester) are provided for 3 years
- Accommodations available to all enrolled students  
- Dormitory (for 1-4 persons) or apartments (for married students)

Section of Graduate Admissions | <https://www.gist.ac.kr/gadm/> | T +82 62 715 3952 | E admission@gist.ac.kr

# Working together with local communities

GIST is building stronger bonds with the local community through various outreach programs.

- Cultural Events**  
• Providing popular high-quality cultural performances in various genres (talk concerts, classical performances, plays, etc.)  
• Expanding relations with local communities through cultural content  
• Performances are open to the GIST community and local residents
- Science School**  
• Learn about interesting science stories at GIST and the Gwangju National Science Museum  
• Held on the third Wednesday of every month at 7:00 pm at GIST Oryong Hall & at the Gwangju National Science Museum Sangsang Hall  
• Science School Homepage (<http://scienceschool.gist.ac.kr>)
- Social Contribution**  
• Promoting values of social responsibility and involvement through activities of the GIST Social Contribution Team  
• Community service (Learning Zone, GSOP, SCIENCE CAMP, book donations, etc.)  
• Overseas humanitarian activities (Hope Water Purifier, ICT volunteer groups, etc.)
- Start-up Support**  
• Discovers and nurtures startups in the artificial intelligence field  
• Operates the Academy of Entrepreneurship Education and Leadership for those in Gwangju and South Jeolla Province  
• Revitalizes the local economy by creating new jobs through start-ups

Your support is an important part of GIST's continued growth.  
**Give a gift that will support a dream.**

T +82 62 715 2021 | F +82 62 715 5029 | E [dreamfund@gist.ac.kr](mailto:dreamfund@gist.ac.kr)

123 Cheomdangwagi-ro, Buk-gu, Gwangju, 61005, Korea  
www.gist.ac.kr | Tel. +82 62 715 2114 | Fax. +82 62 715 2300



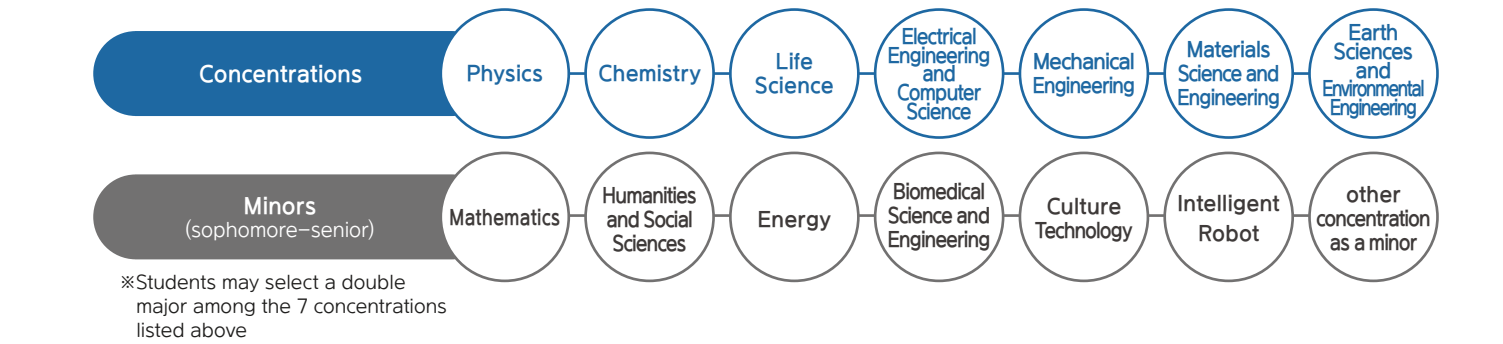
A Global Frontier for Science & Technology

GIST Gwangju Institute of Science and Technology

# GIST College

Liberal Arts College

## Curriculum



## Key Features

**3C1P Problem solving**

- Self-directed experiences and challenges, learning centered on discussion and presentations
- AI·SW education in preparation for the 4<sup>th</sup> Industrial Revolution
- Opportunity to minor in extensive areas including humanities and social sciences, enhanced art education
- In-depth education of basic science, including mathematics and physics
- Research opportunities in conjunction with graduate school programs (G-SURF, Caltech SURF)
- Student-driven creative activity program (Infinite Challenge Project)
- Campus-based mentoring program for learning and career development
- All lectures including basic science subjects and major courses are provided in English
- Support students to complete their studies at world renowned universities in S&T (Caltech · UC Berkeley · Boston University (US), University of Cambridge (UK), Technion - Israel Institute of Technology, etc.)

## Scholarships and student welfare programs

- Support for tuition and school fees
- Provides for educational expenses and school lunch subsidies
- Various scholarship programs including dean's scholarship and national scholarship
- 'Dorm-based' community on campus

Section of Undergraduate Admissions | <https://www.gist.ac.kr/uadm/> | T +82 62 715 2950 | E uadmission@gist.ac.kr