

Quantum Information Science of Interdisciplinary Studies

Eligibility

- Students with knowledge and experience in various fields such as physics, electrical engineering, computer science, mathematics, materials science, chemistry, and biotechnology are eligible to apply
- Students who are interested in quantum science and its applications, and who have a passion for research and a spirit of challenge, may apply regardless of their major

Vision

Establishment of a research and education hub leading the era of the Second Quantum Revolution

Key Research Fields

- Quantum algorithm and software development
- Research on photonic integrated circuit-based quantum computing
- Fabrication of quantum interference circuits using topological quantum gates
- Development of topological superconductors and two-dimensional heterostructure systems for fault-tolerant quantum circuits
- Fabrication and measurement of spin qubit devices
- Research on ultrafast laser-based quantum qubit control technologies
- Quantum technology research using ultrafast spectroscopy
- Development of ultra-high-resolution bio-imaging technologies using quantum entanglement
- Research on exciton-polariton-based quantum information devices
- Design of quantum-resistant cryptography and security analysis
- Research on the temporal evolution of quantum information
- Scale-up of qubit control and measurement based on superconducting circuits
- Development of neutral atom qubits, Rydberg-based sensing and control
- Development of quantum dot-based light sources and establishment of material platforms for photodetectors

Faculty

Prof. Sangil Kwon | sangil.kwon@dgist.ac.kr
Prof. Keeseong Park | http://nqmat.dgist.ac.kr
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Biomedical Science & Engineering

Vision & Goals

- The vision of the Biomedical Science and Engineering program is to cultivate global physician-scientists, biomedical scientists and engineers who will lead future medical innovations to treat intractable human diseases.

Specialized Research Fields

- Multidisciplinary Curriculum**
Integrates cutting-edge knowledge in medicine, neuroscience, brain engineering, life sciences, and biomedical engineering to develop new technologies for the treatment of intractable human diseases.
- MD-Ph.D. and M.S./Ph.D. Programs**
Offers in collaboration with leading global medical schools and institutes.
- Innovative Therapeutics and Diagnostics**
Focuses on developing new therapeutic technologies by elucidating novel mechanisms in life sciences, while also innovating diagnostic and therapeutic medical devices through interdisciplinary research.
- Translational Research**
Accelerates the commercialization of research outcomes through close collaboration with hospitals and industries.

Key Research Fields

- Mechanism and Therapeutic Research for Treatment of Intractable Human Diseases.
- Brain engineering
- Intelligent medical imaging systems and analysis
- Medical robotics and therapeutic support systems

Faculty

Mechanism and Therapeutic Research for Treatment of Intractable Human Diseases
Prof. Denis Noble (Distinguished Chair Professor)
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Prof. Meon-Hwan Kim | https://kimlab.dgist.ac.kr
Prof. Chang-Hoon Nam | https://newbioggy.dgist.ac.kr/pafesar/dnam
Prof. Young-Sam Lee | https://www.dgist.ac.kr/prag/people/prof/sernewbiology/sub02_01/view.do?profIdNo=170
Prof. Joo-Min Lee | https://physiology.dgist.ac.kr
Prof. Chang-Hun Lee | https://sites.google.com/view/dgistkinlab/
Prof. Youngtae Jeong | https://www.stemcancerbio.com
Prof. Tae-Wan Kim | https://hwkim.dgist.ac.kr
Prof. Chan Chung | cel.dgist.ac.kr
Prof. Jung-Ho Hyun | http://hyunlab.org/

Brain engineering

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Prof. Jung hyup Lee | http://jns.dgist.ac.kr
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Prof. Minyoung Song | http://wise.dgist.ac.kr
Prof. Kyangtae Lee | https://sites.google.com/view/setdgist
Prof. Yoon Kim | https://www.yk-laboratory.org/
Prof. Ahhyoung Lee | https://sites.google.com/view/nms-lab

Intelligent Medical Imaging Systems and Analysis

Prof. Jin Ho Chang | https://mafi.dgist.ac.kr
Prof. Joe Yun Hwang | https://mbis.dgist.ac.kr
Prof. Kijoon Lee | https://sites.google.com/view/qbolab
Prof. Cheol Song | http://sites.google.com/view/dgist-bcm
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Prof. Jaesok Yu | http://ultrasound.dgist.ac.kr
Prof. ByungKun Lee | https://sites.google.com/view/cabi-dgist
Prof. Okkyun Lee | https://sites.google.com/view/rml
Prof. Minsun Lee | https://sites.google.com/view/prsmk-lab/lee

Medical Robots and Therapeutic Support Systems

Prof. Sukho Park | http://mbr.dgist.ac.kr
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Prof. Jaehong Lee | https://sobi.dgist.com
Prof. Shinbum Lee | http://xlab.dgist.ac.kr
Prof. Kyung In Jang | https://www.jangrobotics.com/
Prof. Haejoon Kim | http://joankim.dgist.ac.kr
Prof. Kyeongeoo Park | https://www.kspark.me

Adjunct Professor

Adjunct Prof. Yoonhee Lee | https://hee-lab.com
Adjunct Prof. Jongcheol Rah | https://www.cortex-lab.org/

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Graduate School of Technology and Innovation Management

Vision & Goals

- Through technology management education grounded in AI and advanced engineering, we cultivate leaders who understand technology as managers and management as engineers, and nurture globally competent, interdisciplinary leaders who drive management innovation based on science and technology.

Specialized Features of the Program

- An integrated curriculum that goes beyond the traditional MBA by balancing AI, engineering, and management
- A practice-oriented, data-driven curriculum grounded in technological understanding and analytical decision-making
- Dual tracks—full-time (AIMS) and working professional (MOT)—to accommodate diverse career paths
- Enhanced industry-ready and global competencies through industry-academia collaboration projects and international programs.

Key Research Areas

- AI- and data-driven management decision-making
- Technology innovation strategy and R&D management
- Technology commercialization and new business development
- Integrated models of engineering and management
- Industry-oriented, problem-solving research through industry-academia collaboration

Faculty

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Scholarship Types

There are no additional application processes for DGIST scholarship benefits. Once applicants are accepted into the graduate program, they will automatically receive benefits based on the type of scholarship they applied for.

※ Applicants are solely responsible for any disadvantages resulting from the incorrect selection of the scholarship category during the application process. Therefore, applicants are advised to carefully select the appropriate scholarship category.

Government Scholarship

A student receiving scholarship benefits funded by the Korean government.

Coverage Full tuition Stipend

Stipend

- Master's : A minimum of 9.6 million KRW annually + additional incentives
- Doctoral : A minimum of 14.04 million KRW annually + additional incentives

Applicable Departments

All department excluding Interdisciplinary Engineering, Graduate School of Engineering Practice, Graduate School of Technology and Innovation Management

DGIST Scholarship

A student receiving scholarship benefits funded by DGIST funds, external donations, or research grants.

The stipend amount depends on factors such as departments/majors or involvement in research. For details, please contact the relevant departments/majors or the intended advisor.

- ※ The rate and coverage may vary based on your involvement in research projects and performance.
- ※ In most cases, international students apply for Government Scholarship unless pre-arranged with the intended advisor.

Coverage (-)

Stipend

- Master's : A minimum of 15 million KRW annually + additional incentives
- Doctoral : A minimum of 22 million KRW annually + additional incentives

Applicable Departments

Interdisciplinary Studies, Graduate School of Technology and Innovation Management

General Scholarship (Currently Employed)

A student planning to study at DGIST while employed by an organization (or a company)

Coverage (-)

Stipend (-)

※ The Department of Advanced Technology Engineering and the Department of Technology and Innovation Management provide stipends. Please refer to each department's website for detailed information regarding the stipend amount.

Applicable Departments

All departments excluding Interdisciplinary Engineering

※ Tuition fees vary by department (major). Please refer to the relevant department's website for detailed information.

Admission Information

Admission Schedule

Procedures	2027 Spring			Fall
	1st	2nd	3rd	
Online Application	'26.6.25 (Thu) ~7.9 (Thu)	'26.8.27 (Thu) ~9.10 (Thu)	'26.11.5 (Thu) ~11.19 (Thu)	'27.4.8 (Thu) ~4.22 (Thu)
Document Screening Results	'26.7.28 (Tue) 14:00	'26.10.6 (Tue) 14:00	'26.12.8 (Tue) 14:00	'27.5.18 (Tue) 14:00
Interview	'26.8.3 (Mon) ~8.10 (Mon)	'26.10.19 (Mon) ~10.23 (Fri)	'26.12.14 (Mon) ~12.21 (Mon)	'27.5.24 (Mon) ~5.31 (Mon)
Final Results	'26.8.25 (Tue) 14:00	'26.11.5 (Thu) 14:00	'27.11.2 (Tue) 14:00	'27.6.15 (Tue) 14:00

Applicable Programs

Department	Major	Available Program
	Physics and Chemistry	~Master's ~Doctoral ~Integrated MS&Ph.D.
	Electrical Engineering and Computer Science	
	Robotics and Mechatronics Engineering	
	Energy Science and Engineering	
	Brain Sciences	
New Biology	Interdisciplinary Engineering	~M.E.P
	Artificial Intelligence	
	Biomedical Science&Engineering	
	Quantum Information Science	
Department of Advanced Technology	Graduate School of Engineering Practice	~M.E.P
Department of Technology and Innovation Management	Graduate School of Technology and Innovation Management	~M.T.M ~M.B.A ~M.E.P

※ M.T.M(Master of Technology Management) / M.B.A(Master of Business Administration) / M.E.P(Master of Science in Engineering Practice)

Online Application

- The application form and Statement of Purpose (SoP) must be submitted through the online application portal (UwayApply)
- ※ Accessible link will be announced on DGIST International Graduate Admissions website.
- Application Fee : 80,000 KRW (for the domestic)
50,000 KRW (for the international)
- ※ Application fee is not refundable.

Admission Procedures at a Glance

STEP 1. Online Application

- Online application link : DGIST International Graduate Admissions website (https://dgist.ac.kr/iadm/)
- Application Form and Statement of Purpose (SoP)
: uploaded on the online application as a single PDF file

STEP 2. Document Screening

- Evaluation of applicants' academic ability based on submitted documents in the online application, such as the academic transcripts, SoP and etc.

STEP 3. Interview

- Only applicants who pass the document screening are selected as an interviewee.
- Interviewees will be guided for interviews by each department office via email.
- An online interview will be conducted, if necessary.
- Interviews for international applicants will be conducted in English.

STEP 4. Final Results

- Final admissions decisions will be announced on the International Graduate Admissions website.

STEP 5. Online Registration

- All admitted applicants must complete the online registration within the designated period to confirm the admissions.

Programs for International Students

Buddy Program

Before arrival in Korea, a DGIST enrolled student, known as a DGIST Buddy, will be paired with each new international student. The Buddy will assist the new student in adapting to life at DGIST by picking them up at the Dong-Daegu station, assisting with dormitory check-in, and being a friend for the semester.

Korean Language Class

DGIST provides Korean language classes not only for international students, but also for other international members such as faculty, researchers, staff, and long-term visitors, as well as their families. Two different levels of classes, one for beginners and the other for post-beginners, are offered each semester. International students can take the courses after registration at DGIST, while other members and their families can audit the courses.

※ International students must take at least one Korean Language course to meet the requirements for graduation. Students who achieve TOPIK level 3 or higher, or receive recognition of their proficiency from the professor of the Korean Language course, may be exempted from taking the course.

※ Auditors can take the courses for free of charge, and textbooks are provided.

Cultural Events

The International Affairs Team provides cultural field trips to cultural and historical sites in Korea for all international members, aimed at enhancing their understanding of Korean business, culture, and history. These events are held once a semester, typically in May and October.

Inquiry

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2027

GRADUATE SCHOOL
ADMISSION GUIDE

Physics and Chemistry

Vision
- Research in contemporary physics and chemistry for advanced materials development - Frontier research in materials science with the aim to make contributions to society and humanity - Educate creative researchers with strong scientific foundations across physics, chemistry, biology, and materials science - Foster globally competitive research capacity through international collaboration and networks with global academic leaders

Research and Education

- Advance our understanding of diverse material systems through modern experimental and theoretical approaches, with the aim of being at the forefront of materials research
- Provide multidisciplinary education and contemporary convergence research that prepare the next generation
- Promote international and multidisciplinary collaboration in materials science through partnerships with world-leading groups
- Organize annual student-led workshops to foster discussion and collaboration among students from different fields

Faculty

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Electrical Engineering and Computer Science

Vision
• Becoming the department of excellence with international academic recognition • Advancing core technologies needed for the development of future industries • Educating professionals equipped with both the ability of global research & development and the sense of technology management • Opening up new fields through electrical engineering and computer science convergence with other fields of study

Research and Education Focus

- Select specialized major research areas and support them intensively
- Cluster the related specialized major research areas as centers
- Conduct convergence research between each field of electrical engineering and computer science and other fields of study

Specialized Research Fields

Intelligent Computing Systems

- Big Data/Cloud Computer
- Computer Architecture
- Operating Systems
- Storage Systems
- AI and Machine Learning

Connected Smart Systems

- Internet of Things
- 5G/6G Mobile Communication
- Satellite Communication
- Wireless Sensor Network
- Future Mobility System (Autonomous Vehicle/UAM/Robot)

Advanced Semiconductor

- Sensor Semiconductor IC
- Next Generation Transistor
- Neural Interface
- Nano-electronic Device
- Hardware Platform and Circuit Design for AI Acceleration

Bio-Medical Systems

- Brain-Machine Interface
- Smart Healthcare
- Bioinformatics
- Bioelectronics

Cyber-Physical Systems

- Realtime Embedded System
- Resilient Transport System
- Intelligent Transport System
- Self-driving Car

Convergence with Other Departments

- **Convergence with Physics and Chemistry** : Research on electronic devices based on new materials
- **Convergence with Robotics and AI** : CPS and brain mapping based rehabilitation robot technologies, Machine-learning based brain machine interface, Sensor and actuator wireless interface
- **Convergence with Energy Science and Engineering** : Energy IT convergence technologies including smart grid and renewable energy
- **Convergence with Brain Sciences** : Medical imaging, Biomedical signal processing, Nano devices with possible application to human body, Database and data mining for medical applications, Biomedical wireless communications and network
- **Convergence with New Biology** : Next Generation Sequencing(NGS) genome data analysis, Large scale protein mass spectrum data analysis

Faculty

Prof. Hyukjun Kwon | https://hne.dgist.ac.kr

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Prof. Kisub Kim | https://base.dgist.ac.kr

Prof. Sunjun Kim | https://sunjun.kim/

Prof. Yoonseung Kim | https://dgist-veel.github.io

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Bioinspired Organic Materials Laboratory
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Robotics and Mechatronics Engineering

Vision
We aim to research core technologies of future robotics toward human centered services in the 4th Industrial Revolution Era, and to educate interdisciplinary experts in robotics who understand the challenges in the fields and define the problems by one's own, and solve those problems actively and collaboratively.

Strategies

Research

- Understand the challenges in various fields and apply basic theories and technologies appropriately
- Develop quality-of-life technologies by integrating mechanical/electrical/electronic material/biomedical engineering
- Extend the developed core technologies to other research and industrial fields

Education

- Intensive on-site education and training
- Strengthen the fundamental courses and foster multidisciplinary convergence education
- Self-motivated learning to promote logical thinking and creativity
- Encourage care and communication, and strengthen research ethics

Research and Education Focus

- Advanced robotics to combine robotics engineering with various service applications.
- Major research areas : Robotic System, Biomedical Devices and AI & Image processing
- Converged robotics engineering through interdisciplinary education, system integration education, team based working process, and project-based practical learning process.

Specialized Research Fields

Department of Robotics and Mechatronics Engineering conducts robotics researches to develop creative fusion technologies by converging conventional engineering subjects (Mechanical, Electrical, Electronics Engineering, Mechatronics, etc) with advanced high technologies such as Biotechnology (BT), Information Technology (IT) and Micro & Nanotechnology (MT/NT). With this fusion technologies, the department will focus on robotics fundamental research on Robot Mechanism Analysis and Design, Precision Actuator and Sensor, Biometric sensing (bio-sensors), Control System, Biomedical, Medical Simulation, Optical System Design, Biomedical Imaging, and Micro/Nano Systems Design & Fabrication

Robotic Systems

- We study dynamics and control of emerging robots. Specifically, we focus on intelligent robots, sensors and actuators, robot dynamics, and machine vision and autonomous driving/flying robotic systems and control. Our main goal is to improve the quality of living

Biomedical Devices

- With strong emphasis in biomedical and micro/nano engineering, we are developing various types of devices. We are running a research center focused on Micro-robotics that can travel inside human body to deliver drug and treat blood vessel diseases. Other research interests are neural interfaces, devices for neuromodulation, wearable healthcare devices, and MEMS/NEMS

AI & Image Processing

- We are developing a state-of-the-art medical imaging techniques, vision systems, machine learning, and big data systems. Our main goal is to enable a next generation perception systems that can be implemented in robots as well as image processing algorithms for rapid and accurate diseases and brain abnormalities. We also develop artificial neural network based on optical semiconductor which can boost computational speed of AI algorithm. In addition, we develop hardware accelerators for AI and quantum computing hardware.

Convergence with Other Departments

- Although DGIST is still at its growing stage, the Department of Robotics and Mechatronics Engineering will conduct an international education-research program called "Global Alliance Program" that collaborates with world leading universities.
- The department will invite world renowned professors to give lectures, co-supervise student thesis, and conduct cooperative research.
- The department will promote exchange of visits at the level of professor/research staff, and students' internship programs in order to encourage their international experience.

Faculty

Prof. Giseop Kim | https://sites.google.com/view/apr-dgist

Prof. Minsoo Kim | https://sites.google.com/view/minsoo-kim

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Prof. Eojin Rho | coming soon

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Prof. Cheol Song | https://sites.google.com/view/dgist-bom

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Prof. Minho Hwang | https://sites.google.com/view/sunglab

Prof. Minho Hwang | https://sites.google.com/view/sunglab

Energy Science and Engineering

Vision
• State of the art courses fostering competent scientists and engineers for the beyond conventional energy sources • Creation of core academic areas and policies for future green energy society • Education of graduate students for future oriented and creative R&D capability

Research and Education Focus

- Cultivation of international leaders for the convergence energy devices through closely interconnected interdisciplinary system of DGIST.
- International exchange (including double-degree program) and team projects with global top institutes
- Solution searching education and research experiences to technical challenges

Specialized Research Fields

- Key materials and system design for the advanced hydrogen and bio-fuel cells
- Production and storage of hydrogen and practical applications of renewable energy systems
- Core-material and fabrication technology for the next generation photovoltaic cells
- Photo- and electrochemical water splitting and recycle of the waste products such as CO2 and waste water
- New materials for high energy density Li secondary batteries
- Post-Li batteries: all-solid-state batteries, multivalent (Ca/Mg/Zn) ion batteries, and metal-air batteries
- New materials for low-energy-consumption electronic and optoelectronic devices
- Multi-scale molecular modeling of materials for clean energy
- Energy harvesting materials and devices
- Data-driven Materials Discovery and AI-based Analysis for Energy Materials and Devices

Convergence with Other Departments

- **Electrical Engineering and Computer Science**
Electricity storage devices and sensor network system for smart grid to improve the efficiency of renewable energies
- **Robotics and Mechatronics Engineering**
Small batteries for microrobots for medical application, and large-batteries for human care/industrial robots
- **Brain Sciences/New Biology**
Bio-energy systems for the treatment of brain signals and processing, and biocompatible power sources

Faculty

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Organic optoelectronic materials and devices research

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Polymer photocatalysts | Sustainable Chemistry

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Cathode materials for LIBs | AI-solid-state batteries

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