

College of Engineering University of Seoul

Electrical and Computer Engineering
Chemical Engineering
Mechanical and Information Engineering
Materials Science and Engineering
Civil Engineering
Computer Science and Engineering
Artificial Intelligence



Department of Artificial Intelligence


The Department of Artificial Intelligence is dedicated to fortifying academic knowledge and technical skills in artificial intelligence, which is rapidly developing and gaining attention in modern society. Artificial intelligence is a core major that fosters human resources needed for the future era of AI, and the department provides students with fundamental theories and field experiences to cultivate the ability to cope with various challenges in modern society.


The department provides students with systematic and in-depth education based on a deep understanding of basic disciplines such as computer science, mathematics, and statistics. In our department, students learn core concepts and skills in areas such as machine learning, deep learning, natural language processing, and robotics. In addition to theoretical knowledge, students develop problem-solving skills through real-world application projects and acquire technical competencies required by the industry. In addition, students can enhance their practical skills through various experiences such as cooperative projects with industrial companies, artificial intelligence competitions, and participation in international academic conferences.


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Department of Computer Science and Engineering


Computer Science and Engineering at the University of Seoul studies the basic skills of computer science and aims to cultivate talented information administrators to develop and operate advanced computing systems, and to design and analyze algorithms. Our students learn basic theories of advanced computing technology.

We teach the basis of computing and the skills required to program computers and solutions skills required to business environment. Also, understanding computer architecture and various computer languages, they will take a lead high technology of computer science with the rapidly changing computing systems, databases, computer networks, distributed systems, artificial intelligences, wireless multimedia, software engineering and so on.

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Department of Civil Engineering

Civil engineering, the oldest and foundational discipline interwoven into the fabric of human civilization, evolves in tandem with societal progress, undertaking tasks essential to our daily lives. The department of civil engineering adopts a multifaceted approach, encompassing the planning, mechanical analysis, design, and construction of civil structures and urban facilities. This extends to active involvement in the development and management of water resources, comprehensive land development, transportation, urban planning, relocation, and expertise in heavy and chemical engineering. These contributions span various sectors, from industrial facilities to fundamental industries such as shipbuilding and aircraft manufacturing. Moreover, civil engineering assumes a crucial role in investigating, inspecting, diagnosing, maintaining, and repairing a diverse array of urban facilities. This proactive engagement proves instrumental in resolving city-related challenges and addressing the escalating frequency of both natural and human-induced disasters.


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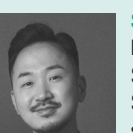
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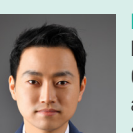
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Department of Materials Science and Engineering

The goal of the Department of Materials Science and Engineering is to train creative engineers with expertise in materials, material design and processing, and basic research skills in the development of advanced materials. The academic and research programs focus on metals, ceramics and polymers, particularly in electronic materials, semiconductors, display materials, energy materials, nanomaterials, and structural materials.

Graduates are always in high demand as they find career opportunities in all areas of the industrial sector.

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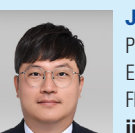
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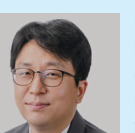
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School of Electrical and Computer Engineering

The school of Electrical and Computer Engineering seeks to produce creative and competitive experts with strong fundamental skills and specialties in electrical and computer engineering. The school encourages students to improve communication and teamwork, skills and to understand professional and ethical responsibilities. The school offers electrical and fundamental computer engineering courses and various specialized courses including microwave and optics, semiconductor, circuit design, control, signal processing, information and communications, and computers.

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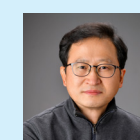
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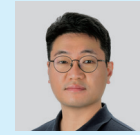
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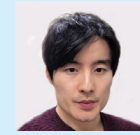
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Department of Chemical Engineering

Established in 1976, we are one of the leading Chemical Engineering Departments in Korea and pride ourselves in our commitment to outstanding research and teaching. Our mission is to create fundamental knowledge and pioneer technologies in the chemical engineering field. Chemical Engineering is a broad discipline dealing with processes (industrial and natural) involving chemical, biological and physical transformation of material or energy into forms useful for mankind. With outstanding academic staff and well funded research programs, our facilities provide excellent opportunities for postgraduate research work leading to Masters or PhD degrees.

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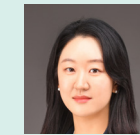
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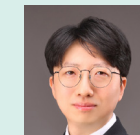
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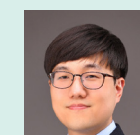
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Department of Mechanical and Information Engineering

The Department of Mechanical and Information Engineering combines traditional mechanical technology with advanced information technology to educate students who will become innovative leaders in the industry and organizations focused on mechanical and information engineering in the era of the 4th Industrial Revolution.

The curriculum offered by the department encompasses a wide range of essential and integrated subjects in mechanical and information engineering, including fluid and solid mechanics, smart mobility design, robotics, embedded systems, and artificial intelligence.

By acquiring theoretical knowledge and applying it in practice, students develop a strong foundation that enables them to tackle intricate challenges and make significant contributions to advancements in the field.

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College of Engineering University of Seoul

The University of Seoul, established and financially supported by the Seoul Metropolitan Government, has produced young leaders through its 105 year history. The College of Engineering currently consists of one school and six departments. The school and departments offer dynamic and diverse coursework designed to prepare students for the advanced technologies and sciences of the 21st century.

The curriculum is interdisciplinary in nature, providing students with a strong basis in modern engineering theories and practices through coursework and application. The Graduate School supports intensive research in each specialized area. Affiliated Research Institutes are greatly helping research activities of professors and students of the College of Engineering.

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