Graduate Studies at Seoul National University, Department of Computer Science and Engineering
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We will lead the evolution of computer technology with knowledge and creativity.
Greetings from the Department Chair

We strive to develop global leaders who will lead a safe and positive future through Computer Technology.

The Department of Computer Science and Engineering at Seoul National University, with its 35 internationally renowned faculty members and high-tech facilities, provides a world-class learning and research environment for over 400 undergraduate and 350 graduate students. Our Undergraduate program offers courses from a wide range of fundamental topics in computer science, such as Computer Theory and Algorithms, Computer Hardware, Software Systems, Computer Networks, Artificial Intelligence, Databases, and more. Our wide coverage gives our students the option to pursue a career in any computer area of their choice. Our graduate program builds upon the fundamentals, educating students in the emerging and developing areas of computer science, such as Big Data, IoT, Deep Learning, Cloud computing, Virtual Reality, and Block Chain so that they can conduct world-class research.

Many of our professors conduct state-run large, long-term research projects, leading South Korea’s future in computer technology. They also collaborate with the industry in many joint projects that apply the latest technologies in the real world. In addition, many professors and graduates are successfully creating startups with innovative ideas and technologies. Furthermore, as Korea’s top educational institution, we place an emphasis on educating our students to become global leaders, as we want our students to become more than just computer scientists. Having established agreements with universities in the United States, Europe, Japan and Asia, we continue to support many talented exchange students and faculty every year. In addition, our graduate students consistently achieve great accomplishments in various international academic conferences and competitions. As the chair of the department, I will continue to pursue our department’s 3 goals (ABC): Academic Excellence, the Best Education, and Collaboration with other fields and industry. Our department hopes to build a tradition of developing creative and talented individuals who have pride in their work.

Thank you.

Soonhoi Ha, Chair of CSE Department

Department Overview

We will lead the evolution of Computer Technology with knowledge and creativity.

Computer science is an essential and core field in the transitions to the society of information. By designing and fabricating high-performance computers and developing the software necessary for their operation, computer science makes the best computer technology available to the entire industry. Computer science is based on building the fundamentals through theoretical research and pursuing real life applications through applied research. As all modern industries gradually increase in complexity, computer science follows the pace to solve more complex problems. As such, computer science brings forth convergent thinking and research, and continues to expand its influence across the industry.

Education and research in the computer science field requires logical reasoning and creative thinking, as well as a solid understanding of the fundamentals of engineering and science. Since computer software and hardware have a very close relationship, the two are studied in conjunction. With this in mind, computer scientists study, hypothesize about, and research the topics of Computer Architecture, Operating Systems, Database Systems, Programming Languages, Computer Communication, CAD, AI, Machine Learning, Algorithms, Natural Language Processing, Real-time Computing, Computer Graphics, Human-Computer Interaction, etc.

As the foremost technology/brain intensive industry, the computer industry has been designated as one of the government-owned industries and is supported at the national level. New and promising technologies in computer science, such as artificial intelligence, high-performance computing, human-friendly intelligent software, next-generation internet and communication, are becoming increasingly important throughout the industry. For this reason, the demand for advanced computer professionals in the industry is rapidly increasing. The Department of Computer Science and Engineering at Seoul National University strives to become a center of advanced computer technology research and human resource development.
## Graduate Courses by Research Fields

<table>
<thead>
<tr>
<th>Research</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Software</td>
<td>Advanced Operating Systems, Compiler Optimization, Distribution System, Multi-Processor Synchronization, Distributed Information Processing, AI and Big Data Systems, Topics in Computer Systems</td>
</tr>
<tr>
<td>Programming System and Software Engineering</td>
<td>Static Program Analysis, Topics in Programming Language</td>
</tr>
<tr>
<td>Information Systems</td>
<td>Database System, Unstructured Database System, Information Retrieval, Advanced Data Mining, Topics in Object-Oriented Systems, Topics in Big Data Analysis, Topics in Data Base</td>
</tr>
<tr>
<td>Graphics and Human-Centered Computing</td>
<td>Advanced Graphics, Computer Animation, Geometric Modelling, Information Visualization and Visual Analytics, Mobile and Ubiquitous Computing, Topics in Graphics</td>
</tr>
<tr>
<td>Networks</td>
<td>Advanced Computer Networks, Probability-based Network modelling, Wireless Network Protocol, On-line Social Media Analysis, Block Chain and Decentralized Internet, Internet Authentication and Anonymity, Topics in Internet Security, Topics in Computer Networks</td>
</tr>
<tr>
<td>AI</td>
<td>Machine Learning, Artificial Neural Networks, Probabilistic Graphical Models, Machine Learning for Bioinformatics, Advanced Artificial Intelligence, Natural Language Processing, Knowledge Representation and Reasoning, Deep Learning, Topics in Artificial Intelligence</td>
</tr>
<tr>
<td>Theory</td>
<td>Theory of Computation, Data Compression, Genetic Algorithms, Cryptology, Topics in Theory of Computation, Topics in Algorithms</td>
</tr>
</tbody>
</table>

You can check our English lectures at sugang.snu.ac.kr

English lectures are flexible every semester!
## Recent English Lectures

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Num.</th>
<th>Course Name</th>
<th>Credit</th>
<th>Professor</th>
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<tr>
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<td>Digital Systems Design Methodology</td>
<td>3</td>
<td>Soonhoi Ha</td>
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</table>

## Department Status

About 35% of undergraduate graduates go on to graduate school. This means that SNU is currently developing high-quality technical manpower and outstanding research manpower that will contribute to development of graduate school-centered education with the goal of success. By entering graduate school, students can choose one major field among various major fields. Through deeper knowledge acquisition and research, since then, they are moving to national and international industries and academia, also starting ventures with new ideas.

### Student Status (unit: person)

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<thead>
<tr>
<th>Major</th>
<th>1st Grade</th>
<th>2nd Grade</th>
<th>3rd Grade</th>
<th>4th Grade</th>
<th>Liberal studies</th>
<th>Double major</th>
<th>Minor</th>
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<th>Combined M.S &amp; Ph.D.</th>
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<td>In School</td>
<td>70</td>
<td>64</td>
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<td>LOA</td>
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<tr>
<td>Total</td>
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LOA: leave of absence
Graduates status

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<th>Ph.D.</th>
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<td>2019</td>
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(Units: Person)

2020 Career after graduation

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<th>Employment</th>
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<td>M.S</td>
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<tr>
<td>Ph.D.</td>
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(Units: Person)

2020 International students status

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<th>Ph.D.</th>
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<tbody>
<tr>
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<td>25</td>
<td>15</td>
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(Units: Person)

Nationality

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<th>Continent</th>
<th>Percentage</th>
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<tr>
<td>ASIA</td>
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<tr>
<td>EUROPE</td>
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<td>AFRICA</td>
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<td>AMERICA</td>
<td>19%</td>
</tr>
<tr>
<td>AUSTRALIA</td>
<td>1%</td>
</tr>
</tbody>
</table>

In labs full of passion for creative research, we continue to conduct research that gains attention from all over the world.
Human-Centered Visual Computing Technology
Graphics and Human-centered computing research group

Computer Graphics and HCI Technologies seek flawless communication between human and computer. Many complex problems in modern society can find clue for the solution on proper visualization and human visual perception. Human-Centered Visual Computing Technology seeks to be a computer that is convenient for humans, to utilize human abilities in computing, and ultimately to cooperate with humans and computers. More specifically, research is conducted on shape modeling, multi-dimensional information visualization, image processing/analysis, motion analysis and synthesis, interactive avatar control, intelligent virtual character, user interface design, and information visualization.

The future internet will open the world of communication and exchange
Network Research Group

Research and Development of protocols and algorithms for all networks, including the internet, wireless networks, data center networks, and online social networks. As well as internet security and privacy, we focus on developing core technologies that will lead the future of telecommunication and internet services such as the architecture design of the Internet, the application of networking optimization of Artificial Intelligence technology, the development of network virtualization technology, the resource management of mobile/wireless communication, the development of IoT communication protocol and IoT system, the analysis of communication traffic, block chain, internet authentication, privacy protection technology.

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3D Modeling and Processing Lab 3map.snu.ac.kr
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3D Modeling and Processing Lab 3map.snu.ac.kr
Professor Myung-Soo Kim
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E-mail mskim@snu.ac.kr
Research that extracts value from Big Data
Database and Big Data Research Group

Our Research Group conducts research on Big Data, Databases, Data Mining, Machine Learning, and Deep Learning. Main Research subject is DBMS Support to improve Machine Learning performance, Data managing and saving technology for various Database application, Data Mining, Information Searching, Recommending System, Natural Language Processing, Deep Learning, Graph analysis such as Web/Social Network, etc., Light weight and AutoML, Finance AI.

Core Software System allows world-wide service
System Software and Distributed System Research Group

Facebook, Instagram, Youtube, Kakao Talk. System software enables services to run faster, use less energy, and perform more reliably and safely from unexpected errors, intrusions and attacks on modern hardware. More in detail, our research interests include hardware resource management of single system that managed by operating system technology, compiler and software platform technology that make it easy to develop various services, distributed/parallel system technology to solve the scalability problem with increasing number of users, Artificial intelligence and big Research on data systems.
Research where Theory meets reality
Theory and Financial Engineering research group

Computer Theory is the basic theory of computer science and has made a fundamental contribution to the development of computer science with efficient algorithm development, NP-completeness concept, and modern cryptology theory. Our research group basically studies efficient algorithm development. Particularly, we are doing research on Big data analysis algorithms, practical algorithms suitable for multicore and cache structures, and genetic algorithms, and also working on applications such as security and financial engineering.

Computer that learns like human
AI Research Group

AI (Artificial Intelligence) is one of the computer science fields that studies how to solve problems efficiently by simulating human recognition, thinking, memory, and learning. Currently, we are working on various theories and applied studies such as machine learning theory, computer vision, text mining, video analysis, recommendation agent, brain neural network analysis and ecosystem modeling.

Optimization and Financial Engineering Lab soar.snu.ac.kr
Computer Theory and Applications Lab theory.snu.ac.kr
Machine Learning Lab mlab.snu.ac.kr
Bio and Health Informatics Lab biohealth.snu.ac.kr
Vision and Learning Lab vision.snu.ac.kr

Professor Byung-Ro Moon
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E-mail moon@snu.ac.kr

Professor Kunsoo Park
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E-mail kpark@snu.ac.kr

Professor Hyun Oh Song
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E-mail hyunoh@snu.ac.kr

Professor Sun Kim
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E-mail sunkim.bioinfo@snu.ac.kr

Professor Byoung-Tak Zhang
Phone +82-2-880-1833
E-mail btzhang@bi.snu.ac.kr

Professor Gunhee Kim
Phone +82-2-880-7300
E-mail gunhee@sun.ac.kr

A new junior professor will join and lead a Cryptography
Two new professors will join in the AI research group from Spring 2021.
**Future controlled by Smart Embedded System**

Computer Architecture and Embedded System Research Group

Nowadays, computing provides convenience and safety in our lives, including smartphones, cars, aircraft, roads, buildings, and bridges. The core technology is to optimize and implement intelligent services for embedded computers with limited computing, memory and battery capacity. Embedded System Research Group conducts not only computer SW, but also CPU architecture, Memory Architecture, Memory architecture and multicore to optimize the system design considering the computer HW characteristics. These research will make possible of AI technology internalization to our lives.

**SW source technology, exciting Programming**

Core Engine Programming System and SW engineering Research Group that leads to new future

Current Software Technology is uncivilized. In the future, software will not be established as the same level as it is today. The languages used for software development will rise to higher levels, Software Tool with sophisticated intelligence of strict logic will ease programmers. Therefore, the cost of software development without error will decrease day by day, software developers will get away from overnight hand technology and become higher director with logic. We work on research that makes this future possible. We research on Programming language theory and system technology, Static analysis theory and application technology, software development tool technology, and Automatic verification technology.
When can I apply?
SNU’s academic year begins in the spring, and the university offers admissions for the fall semester as well. For admission in spring, you can submit your application from April to August each year. For fall admission you can submit your application from January to March each year.

How do I submit my application?
All the materials should be submitted online and by post.

Online Application
You should log in to admission.snu.ac.kr website by creating an account.

According to the instructions, type in all the required information for each step of the online application.

A high volume of connections are anticipated near the deadline; completing the application prior to the deadline is recommended.

Submission of Required Documents
After completing your online application, print out the completed Application Form and the Application Checklist.

Please mark and place the application checklist in front of the application packet, and arrange the application material in the order listed in the checklist.

Send your application packet via registered mail along with the required documents to the following address: Office of Admissions Seoul National University, 599 Gwanak-ro, Gwanak-gu, Seoul 151-742, Korea.

http://useoul.edu

Exchange/Visiting Program
A large number of international students have enjoyed studying at Korea’s most prestigious university. The student exchange program not only offers you top education and research facilities, but also allows you to learn about Korea and experience Korean culture.

The department of Computer Science and Engineering at SNU offers international students several possibilities to study. Degree programs as well as short-term exchange or visiting student programs are available.

The Student Exchange Program is suited for students enrolled at one of SNU’s partner universities who wish to study at SNU for one or two semesters and transfer the credits to their home institution. The first student exchange agreement has been made with the University of Tokyo in 1995; since then SNU has partnered with more than 500 institutions all around the world.

To be enrolled as an exchange student at SNU, candidates must be officially nominated by their home institution. Tuition is also paid to the home institution. On-campus housing is provided and financial support for Korean language courses is available. More information on this program can be found on the website of the SNU Office of International Affairs.

The Visiting Student Program is offered for students who are not currently enrolled at one of SNU’s partner universities. During the one or two semesters here at SNU, students pay the tuition fee to SNU and may request a credit transfer directly with their home institute. On-campus housing is not available and no financial support is provided for Korean language programs. To apply as a visiting student, students register directly with the SNU Office of International Affairs. Please visit http://oia.snu.ac.kr/. 
**Graduation Requirements**

**Master’s Degree (M.S)**
- Minimum number of enrolled semesters: 4
- Maximum years of enrollment: Cannot exceed 4 years as a master’s candidate (excluding leaves of absence)
- Required credits: Minimum of 24
- GPA: GPA of all courses and majoring courses should be 3.0 or above.
- Have to work as TA in 1 or more department courses before completing M.S. course

**Doctoral Degree (Ph.D.)**
- Minimum number of enrolled semesters: 4
- Maximum years of enrollment: Cannot exceed 6 years as doctoral candidate (excluding leaves of absence)
- Required credits: Minimum of 36 (Minimum of 60 credits including credits from the master’s program)
- GPA: GPA of all courses and majoring courses should be 3.0 or above.
- Have to work as TA in 1 or more department courses before completing Ph.D. course

**Combined Master’s and Doctorate Degree (Combined M.S and Ph.D.)**
- Minimum number of enrolled semesters: 6
- Maximum years of enrollment: Cannot exceed 8 years in the combined degree program (excluding leaves of absence)
- Required credits: Minimum of 60
- GPAs: GPAs of all courses and majoring courses should be 3.0 or above.
- Have to work as TA in 1 or more department courses before completing Combined course

**International Scholarships**

**SNU President Fellowship (SPF)**
Support for professors who do not have Ph.D. degrees at National universities in developing countries

**SNU Global Scholarships I, II, Graduate Scholarship for Excellent Foreign Students (GSFS)**
For SNU International students in graduate programs

**Korean Government Scholarship Program (KGSP)**
For international students from countries that have concluded a bilateral cultural agreement with Korea

Check more details at
http://oia.snu.ac.kr/page/scholarships.php

**Joint/Dual degree at SNU**
Average of 21 Outbound, 10 Inbound students take joint/dual degree at SNU
*Details will be updated at https://eng.snu.ac.kr/node/67*
SNU Gwanak Residence Halls (Dormitory)
Capacity for 960 international students

Moving In Application Period
- Every year mid November – beginning of December
- Wait-list application of second term takes place in the beginning of July
  (Number of selected students depend on the number of empty rooms that occur in the first term)
- Details about the application process and schedules are posted annually around November on the Gwanak Residence Halls homepage -> https://dorm.snu.ac.kr/eng/

Application Method
- Click the ‘Online Moving In Application’ button in the Gwanak Residence Halls homepage or access
  SNU portal MySNU ▶ Log-in ▶ Academic affairs ▶ Dormitory ▶ Gwanaksa ▶ Apply to move in
- Details can be modified during the noticed application period (Finally modified details will be applied)

Graduate Housing
- Selection proportion : Current Students and research students are randomly selected using computer depending on priority with a 85:15 proportion
- Gwanak Residence will maintain its high accommodation rate, and will expand accommodation for 500 households at Siheung Campus for international students

Support for International students

Office of International Affairs (OIA) – oia.snu.ac.kr
- Established as an International Exchange Center in 1996 and reorganized into OIA, one of eight administrative organizations at Seoul National University
- Encourage and promote students’ smooth exchange activities, overseas training programs and maintain scholarship program
- Will provide package-type support system for international graduate students (systematic support of tuition/living expense/airfare/Korean education expenses)

CoEIO (College of Engineering International Office) – eng.snu.ac.kr/coeio
- Welcome center for international students
- Seoul National University is planning to expand Korean education for international students, and Mentoring program to consult/share about research, education and living.

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AIIS
Artificial Intelligence Institute of Seoul National University

AIIS (Artificial Intelligence Institute of Seoul National University) is an intercollegiate research institute established in 2019, committed to integrating and supporting AI-related research.

As a hub of AI research both in Core AI and X+AI areas, researchers of diverse disciplines collaborate through AIIS. About 300 faculty members from 62 different departments are currently affiliated with SNU. AIIS supports ten selected AI research groups who will possibly lead AI-applied research in their fields. AIIS researchers are leading several large-scale interdisciplinary research projects, namely BabyMind, Video Turing Test, and Neural Processing Research Center. AIIS has partnered with prominent companies and organizations since its establishment and will expand its partnerships with industries through the newly organized AIIS Center for Industry Cooperation.

AIIS website  |  https://aiis.snu.ac.kr/

Institute of Computer Technology (ICT)

Founded in 1989, Institute of Computer Technology is dedicated to developing new computer technologies and training professional researchers in computer science and engineering. The institute was founded through the cooperation of 20 domestic universities. By fostering the cooperation of universities and industries within the nation, the institute has been a pivotal center for raising IT professionals and developing cutting-edge information technology, and thus is central to the growth of the national computer industry. Currently, we are conducting research in various fields of computer science to develop innovative technologies that will become the foundation of the next-generation computers.

ICT Website  |  https://ict.snu.ac.kr/