ACCESS to Hokkaido University!

From New Chitose Airport to Sapporo Station: 45 minutes by express train or 50 minutes by bus/tram
From Sapporo Station to campus: 10 minutes by walk or 3 minutes by car

English Engineering Education
PROGRAM
Kita 13 Nishi 8, Kita-ku
Sapporo, Hokkaido, 060-8628 JAPAN

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✉ eprogram@eng.hokudai.ac.jp

FOR DETAILS PLEASE CHECK OUR HOME PAGE
️ e3 hokudai
🔍 http://www.eng.hokudai.ac.jp/e3/

Study in English in JAPAN!
WELCOME TO e³ - 10 reasons why study engineering at Hokkaido University!

The e³ program was established in 2000 to foster global engineering human resources, and since then has actively attracted high caliber students from diverse educational and cultural backgrounds. Find out why e³ is for you!

1. Education in English
   Do Master’s or Doctoral degree entirely in English. More than 150 subjects are offered in English.

2. Fits your interest
   Find the program that matches your interests from the wide range of fields covered by the 12 divisions of the Graduate School of Engineering.

3. Excellent academic reputation
   Study in one of the top 5 Japanese universities, which is also ranked highly in Asia and the world.

4. Concentrate on research
   Conduct research in well-equipped laboratories, including some of the world’s most advanced facilities. Every graduate student gets his or her own study space.

5. Global Perspective
   Study together with colleagues from all over the world, join e³ active social file, and create your own unique international experience.

6. More opportunities
   Get internship offers from industry and foreign universities through the Center for Engineering Education Development.

7. We care!
   Besides the great services for international students available around the university, e³ office will also support you and keep you updated, from entrance application to graduation.

8. We invest in future leaders
   Through our program, you can apply for full support scholarships or receive tuition discounts and small grants.

9. Commuting stress free
   Study in one of the most beautiful campuses in Japan. You can live in a university dormitory or private apartment nearby, and commute in just a few minutes by bike or by walking.

10. Comfortable and reasonable
    Enjoy good infrastructure, a beautiful environment, and relatively cheap living costs in the 8th largest city in Japan!
CREATE YOUR OWN FUTURE!

Scholarships & Support

Apply before arrival

Japanese Government MEXT e3 scholarship

Application deadlines

Regular admission

Application deadline

November 15th

Enrollment

April 1st

Admission with MEXT scholarship

May 31st

October 1st

Application documents

Check out website for details.

Admission Calendar

Inokashira University follows a two-semester system and admission is possible from either the Autumn semester, starting October 1st, or the Spring semester, starting April 1st.

The program offers a number of full support scholarships, but the application calendar differs for regular admission and admission with the Japanese Government MEXT e3 scholarship.

Requirements

Students who fulfill all the requirements and show high academic achievements, including higher than average GPA, may be accepted based on documents screening and an on-line interview with the supervisor.

Master’s

The typical time required to complete this degree is 2 years.

ENTRY REQUIREMENTS

In order to obtain entry into the Master’s Program you MUST:

• Hold a four-year Bachelor’s Degree
• Have above average grades — 80% or 3.0 on a 4-point GPA
• IELTS (Test of English as a Foreign Language) 6.0

*Your grade is below the minimum requirement you may either appear for the entrance exam or the university may request a research student to enroll and then take the entrance exam after you enter the program.

COMPLETION REQUIREMENTS

In order to obtain this degree, you MUST:

• Obtain 30 credits from the English Curriculum
• Submit a thesis in English and be examined in English

Doctorate

The typical time required to complete this degree is 3 years.

ENTRY REQUIREMENTS

In order to obtain entry into the Doctoral Program you MUST:

• Hold a four-year Bachelor’s Degree and a Master’s Degree
• Have above average grades — 80% or 3.0 on a 4-point GPA
• IELTS (Test of English as a Foreign Language) 6.0

*You are required to demonstrate your potential for research through publications

COMPLETION REQUIREMENTS

In order to obtain this degree, you MUST:

• Obtain 10 credits from the English Curriculum
• Submit a thesis in English and be examined in English

• Satisfy all publication requirements set out by the division.

Top Global University scholarship

A limited number of full support scholarships for maximum period of 24 months are available. Apply directly to the program.

MEXT honors scholarship: reservation system

Scholarship of JPY 48,000/month (for 6 to 12 months), Apply directly to the program.

Application deadlines

Regular admission

Application deadline

November 15th

Enrollment

April 1st

Admission with MEXT scholarship

May 31st

October 1st

Application documents

Check out website for details.

After arrival

MEXT honors scholarship (for enrolled students)

Financial assistance of JPY 48,000/month (for 6 to 12 months) to encourage learning is available for a number of currently enrolled self- supported students with good academic performance.

Tuition fee support

Tuition fee waiver

Self-supporting graduate students can apply for waiver/discount of tuition fees. In the second semester of Academic Year 2013-14, 75% of the applicants were granted full fee waiver and 15% partial fee waiver.

Pay-back system for Doctoral Students

By combination of tuition fee waiver and research assistant employment, 100% of tuition fee can be refunded.

Apply for short-term programs

Internship Program

The Faculty of Engineering offers an Internship Program for full-time students enrolled in foreign universities. More than 100 students joined the program in Academic Year 2014-15. Competitive scholarship are available for up to 2 months, JPY 80,000/month in academic year 2015-16.

This experience will surely benefit your future.

More details at:
http://labs.eng.hokudai.ac.jp-office/ao/internship/

Exchange Program

The Graduate School of Engineering welcomes international students from over 160 universities worldwide for one or two semesters as a tuition-waived exchange student. Two forms of exchange are possible.

- Special Research Students - graduate students who undertake research centered on their specialized areas
- Special Audit Students - take the same courses as regular students (graduate students take courses from 4th English curriculum).

Please contact your study abroad office for further information about the application procedures.

Find out if your university is our exchange partner:
http://www.cis.hokudai.ac.jp/foreign-student/exchange-student-admissions/
Materials Science and Engineering

The division provides professional education in cutting-edge materials science, including material design based on related modeling, material production methods optimizing the scale from nano to macro, application, ecological processes as environmental system, and ecological and energy materials serving as new functional materials. The division also supports the development of materials science researchers and engineers with the capacity to work independently.

4 Research groups

- **Quantum Matter Physics**
  - Complex systems, networks, superconductors, topological materials, topological crystals, graphene, nanotubes, molecular junctions, quantum wells, semiconductors, low dimensional systems, quantum matter, charge density waves, acoustic phonons, nanoelectronics, magnetic and laser ultrasound, optics, metamaterials

- **Complex Materials Physics**
  - Nanotechnology, imaging, graphene, neural networks, photovoltaics, superconductors, liquid crystals, heterogeneous media, solid state physics, crystallography, thin films, spintronics, nanoelectronics, biological systems, single particle detection, quantum dots, carbon nanotubes, and graphene

- **Solid State Physics and Engineering**
  - Semiconductors, nanostructures, quantum computers, spintronics, spectroscopy, crystals, lasers, condensed matter physics, waves, phonons, acoustics, NEMS, metamaterials

Mechanical and Space Engineering

Students in this division take course subjects in space engineering and cutting-edge mechanical engineering. These subjects, along with research activities in a laboratory the student belongs to, support the development of capability in space engineering and the establishment of a research team to promote research and development in related fields. The capacity to independently promote research and development is a strong sense of ethics and an international perspective.

2 Research groups

- **Space Systems Engineering**
  - Space system, space propulsion, spacecraft, hybrid rocket, thermal design, space propulsion, International space station, combustion, computer-aided fluid mechanics, aerodynamic design, multiphysics flow simulation

- **Materials and Fluid Mechanics**
  - Fluid dynamics, two-phase flow dynamics, molecular fluid dynamics, thermal transport phenomena, mechanical and functional materials, fatigue, surface modification, strength of materials, stability and plasticity, instability in solid mechanics

Human Mechanical Systems and Design

The division of human mechanical systems and design aims to conduct advanced research on “man-machine” systems that support new life and living by using bioengineering, robotics and control engineering, which are based on mechanical engineering, as well as offering specialized education related to these fields.

2 Research groups

- **Biomechanics and Robotics**
  - Tissue biomechanics, human movement, medical engineering, assistive technology, motion and vibration control, robot navigation, mobile robots, smart structures, feedback monitoring

- **Microsystems Engineering**
  - Fluid and solid mechanics, thermal conducitivity, composite material, functional material, sensor, cell mechanics, MEMS, microphysiology, optimization, static and dynamic analysis, laser engineering

Quantum Science and Engineering

The research activities of this division cover a wide area of physics and engineering for the quantum beam science and the plasma. Based on the fundamental study of these research fields, we are aiming for state-of-the-art materials characterization and fabrication techniques, microfabrication and carbon therapy equipment, new devices for energy generation and saving, environmental monitoring techniques, etc.

3 Research groups

- **Applied Quantum Beam Engineering**
  - Neutron generation, neutron scattering, imaging, quantum beam, radiation detection and measurement, magnetic measurement, medical physics, medical capture, neutron therapy

- **Plasma Science and Engineering**
  - Plasma processing, plasma diagnostics, laser microfabrication, plasma-surface interactions, fusion engineering, vacuum engineering, simulation of electromagnetic field in plasma

- **Nanomaterials Science**
  - Quantum beam irradiation effects, in-situ observation, nuclear material, transmission electron microscopy, synchrotron radiation, surface science, well-defined catalysts

My laboratory encourages students to be independent and to participate in international conferences by paying all travel and participation expenses. Last year, I went to two big international conferences in Europe to present my research results. It helped me to improve my own view of the problem I am investigating. Also, I can discuss with my professors almost anything, which helps tremendously with making connections to my research plan.

Antonino Margaria (Roma)
Waseda University, Japan
Engineering and Policy for Sustainable Environment

The Division of Engineering and Policy for Sustainable Environment aims to produce future leaders capable of solving complex environmental and social problems from global perspectives while building consensus with local residents and using methods including systems engineering and socioeconomic approaches. These are intended to create the spaces and environments essential for safety, comfort, and well-being of human activities and harmonization with nature.

2 Research groups
- Engineering for Sustainable Infrastructure System
  Structural mechanics, structural dynamics, bridge engineering, steel structures, concrete structures, hybrid structures, seismic engineering, life cycle engineering, life cycle management.
- Policy for Engineering and Environment Infrastructure planning, national and regional planning, urban economics, transportation planning, traffic engineering, public involvement, mathematical programming, traffic information, construction management.

Environmental Engineering

The Division of Environmental Engineering aims to produce highly specialized professionals with special capabilities essential to build sustainable systems by conserving the environment and creating safe and comfortable living spaces based on the sound circulation and metabolism of water, air, and substances. Such professionals should be equipped with the skills to engage in specialized work and R&D on environmental problems.

2 Research groups
- Water Metabolic System
  Environmental biotechnology, biotransformation, microbial ecology, public health, water quality standard, microorganisms, aerosol, water, evaluation, water quality, wastewater treatment technology.
- Environmental Management Systems
  Solid waste, energy, thermal treatment, recycling, system optimization, air pollution, noise pollution, evaluation, environmental health, sound material-cycle, bioremediation, soil and groundwater contamination, risk communication.

Human Environmental System

The human environment consists of the built environment and parts of the natural environment. The human environment, such as residences, industrial areas, natural landscapes, and cities, is important for our lives and symbols of our culture. The division of human environmental systems is focused on understanding the relationship between humans and the environment and the design of sustainable systems.

2 Research groups
- Planning and Performances for Built Environment
  Building construction, building material, energy & environment.
- Building Science and Space Planning
  Indoor environment, architectural environment, landscape.

Architectural and Structural Design

The main research and educational topics of this division include architecture, industrial design, and environmental design. This division aims to develop and promote new approaches to sustainable design. The division is dedicated to the study of the relationship between humans and the environment and the design of sustainable systems.

2 Research groups
- Geoenvironmental Engineering
  Rock slope stability, tunnel deformation, acid mine drainage, environmental fluid mechanics, seismology, seismology.
- Resources Engineering
  Mineral processing, resource recycling, environmental remediation, water/wastewater treatment, ore deposit, inorganic material, soft matter, green chemistry, nanomaterials, CO2 conversion.
Campus Life

Enjoy the perfect balance between study, research and living environment!

Sapporo, the 5th largest city in Japan, with a population of almost 1 million people, and it is often rated as one of the most desirable places to live in Japan. The Hokkaido University campus is located in a beautiful setting in the center of Sapporo, with easy access from the international airport. Enjoy the plentiful nature of Hokkaido, including skiing, hiking, and many other outdoor activities!

AN UNFORGETTABLE EXPERIENCE!

Where to stay?

University Accommodation
There are a total of 442 fully furnished, Internet-enabled rooms (including 60 for family and couples) available. Most students stay in the dormitory for the first semester or two.

Private Apartments
Room guide service is available on campus for free. Many affordable private apartments are located in close proximity to the campus.

How much will I spend?

Sapporo provides an excellent quality of life and a more reasonable cost of living compared with other major cities in Japan. You can comfortably live on a budget of approximately JPY 90,000 to 150,000 per month.*

<table>
<thead>
<tr>
<th>Rent</th>
<th>JPY 4,700 to 28,500</th>
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</thead>
<tbody>
<tr>
<td>University accommodation</td>
<td></td>
</tr>
<tr>
<td>Private apartment</td>
<td>JPY 30,000 to 40,000</td>
</tr>
<tr>
<td>Food</td>
<td>JPY 15,000 to 30,000</td>
</tr>
<tr>
<td>Other</td>
<td>JPY 20,000 to 30,000</td>
</tr>
</tbody>
</table>

*As of May 2019. Your budget depends on the lifestyle you choose. The above is for reference only.

Who will help?

Office & International Affairs Office of Engineering
Friendly English-speaking staff will help you with any issues, from academic affairs to everyday life.

Supporter System
Newly arrived international students are paired up with an enrolled student and are given help to smoothly adjust to their new environment.

Will I learn Japanese?

International Student Center
Learning some Japanese will help you to enjoy your everyday life and better understand Japan’s unique culture. Courses of different levels, from introductory to advanced, are offered for free.

ACADEMIC CALENDAR / EVENTS

<table>
<thead>
<tr>
<th>October</th>
<th>November</th>
<th>December</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
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<tbody>
<tr>
<td>Classes begin</td>
<td>New Year’s Day</td>
<td>Classes finish by early February</td>
<td>Graduation ceremony</td>
<td>Classes begin</td>
<td>Golden week holidays</td>
<td>University Festival</td>
<td>Classes Finish by early August</td>
<td>Graduation Ceremony</td>
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<tr>
<td>Orientation</td>
<td>Welcome trip</td>
<td>Year-end party “tomodachi”</td>
<td>Snow sculpture contest</td>
<td>Graduation party</td>
<td>Orientation</td>
<td>Welcome party</td>
<td>Summer BBQ</td>
<td>Sport Festival</td>
<td>Field trip</td>
<td>Graduation party</td>
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<tr>
<td>October enrollment</td>
<td>Autumn semester: October-March</td>
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<td>Spring semester: April-September</td>
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