

KYUSHU UNIVERSITY
INFORMATION 2013-2014

九州大学



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Welcome to Kyushu University

Since its establishment as the fourth Imperial University of Japan in 1911, Kyushu University has striven to provide the highest levels of education, research and medical activities, and it has produced numerous globally successful alumni. Our university has grown into a prestigious international institution; it now comprises 11 undergraduate schools, 18 graduate schools, 16 faculties, 5 research institutes, a university hospital offering advanced medical care, and libraries that stock more than 4 million books. The university is home to some 19,000 students and approximately 7,800 employees.

In recent years, global challenges, such as environmental issues and resource and energy problems, have become evident and increasingly urgent, in addition to domestic problems such as declining birthrate and aging society. Kyushu University has taken the initiative in fostering globally competent human resources and creating innovation to help address these issues. Our university has produced talented individuals for the academic, business and government fields by launching new and reorganized educational structures. Examples of this can be seen in the 21st Century Program and the Graduate School of Integrated Frontier Sciences, as both are first-of-its-kind programs in Japan. At the same time, developing leading-edge research projects, we inaugurated various research centers, including the International Institute for Carbon Neutral Energy Research (I²CNER) and the Institute of Mathematics for Industry (IMI).

Kyushu University marked its centennial anniversary in 2011. In our centennial year, we launched the Faculty of Arts and Science, which is dedicated to offering liberal arts education from new perspectives. In 2016, we will inaugurate the International School of Arts and Sciences (tentative name), where international students and their Japanese counterparts can study together in English. As our centennial motto, "Leading the field in the next 100 years, Leaping into the World Top 100", suggests, the university is committed to sustained educational and research advancement over the next 100 years, joining the world's top 100 institutions in every academic field.

We are still in the process of relocating to Ito Campus, our new main campus. This state-of-the-art campus is designed to conduct verification experiments for various cutting-edge technologies, reflecting our high regard for the conservation of biodiversity and the preservation of historical remains as well. Kyushu University continues to dynamically evolve to make further leaps in the next 100 years. I sincerely hope that more researchers and students from around the world will join us in our endeavor to create new traditions for the next centennial together.



Setsuo Arikawa
President of Kyushu University

CENTENARY MESSAGE

With continual and autonomous reforms, while guaranteeing educational quality at an international level, we will aim to be a top-level education and research hub marked by vitality and a willingness to address future issues.

I A university that responds to societal issues;

- **Fusing and integrating sciences**
- **Proposing a social system**
- **Sustaining cultural diversity**

We will continue to investigate new scientific fields that need to be addressed for the global community, the national government, local communities, industry and the general public. We will also develop individuals who will explore new scientific and technological frontiers to respond to the variety of issues facing society and academia.

II A university that promotes the highest levels of research;

- **Exploring the truth and establishing a hub for creation**
- **Promoting interdisciplinary research**
- **Promoting solution-oriented research**
- **Developing top caliber researchers**

We will promote original and interdisciplinary basic research based on past achievements and advanced research, supported by a solid research grounding, and achieve superb academic research results in our aim to be at the global forefront in every field.

III A university that cultivates active, life-long learners;

- **Offering experiences of practical studies**
- **Systematizing self-sustained knowledge**
- **Emphasizing study processes**

We will cultivate active learners who continue with life-long education, and who continue growing as intellectuals and as human beings, so that they can creatively deconstruct and examine the various challenges faced by society and bring about constructive solutions based not only on acquired knowledge but also on free ideas and flexible thinking.

IV A university that fosters strong, determined leaders for the future;

- **Acquiring foresight and a broad perspective**
- **Challenging attitude**
- **Emphasizing creative partnerships**
- **Flexible ability to take action**

We will foster strong and determined leaders equipped with both wide-ranging general knowledge and deep expertise, who will be able to face complicated and difficult challenges boldly and calmly, try to elucidate the true nature of a problem, comprehend different ideas and values, proactively address problems, and propose future directions for society.

V A university that contributes to both the local community and global society by providing advanced medical treatment;

- **Developing and providing advanced medical treatment**
- **Developing medical professionals with advanced expertise who will offer holistic medical treatment**
- **Developing basic research to be applied at clinical scenes, and promoting interdisciplinary research**

We will continue to lead Japan in the medical treatment field as an advanced medical institution, for pre- and post-graduation education for doctors, dentists, nurses, pharmacists and other medical professionals, and for clinical research into disease conditions and new diagnostic and treatment methods. We will secure sound hospital management and aim at providing the highest-level medical care.

VI A university that offers superb learning and research environments;

- The campus as a city and regional hub
- Reducing global environmental burdens while coexisting with environment
- Considering health, safety and security
- Recovery and rehabilitation core for disasters

Based on our long-term vision, we will create and maintain a campus that is characterized by universality, a sense of innovation and flexibility. We will offer a world-class environment to students, faculty staff and visitors, including external researchers, and create a campus that supports the highest level of research and educational activities. At the same time, the campus will be open to society as an important asset of the city and the region, one that citizens can both take pride in and rely on.

VII A university that leads the local community and global society;

- Coexisting with the city
- Developing global human resources
- Internationalization of education
- Strengthening the formation of an international consortium

We will form an extensive and dynamic international consortium, and take the initiative in addressing various issues faced by international society. At the same time, we will strongly promote the internationalization of education through global activities, and nurture personnel who will play an active role in the international community. Our university will also serve as an exchange hub for education, research and medical activities, representing Japan and the region, and will contribute to both global society and the local community.

VIII A university that sustains growth through spontaneous reforms;

- Sustainable reform system
- Diversified personnel system
- Strengthening the management foundation
- Evaluation and reform
- Ensuring complete compliance

By reforming our organization and management system autonomously, we will create a university that can flexibly respond to future changes on a global scale, create knowledge seeds leading to the next scientific revolution, and build trust and recognition of the university system.

IX A university that advances the accumulation of knowledge and its intergenerational and societal sharing;

- Reinforcing academic information foundations
- Systematizing and using knowledge
- Accumulating and sharing knowledge
- Knowledge cooperation core

We will put together all departments to develop an academic information foundation, and promote functional reinforcement in order to explore and create knowledge that contributes to the development of society, and will foster leading personnel for this purpose. At the same time, we will lead in forming a method to accumulate, maintain and share new knowledge.

CHRONOLOGICAL OUTLINE

Founded in Fukuoka in 1911 as the 4th Imperial University, Kyushu University has established itself as a leader in education and research not just in Japan, but throughout the world. Currently, it has a total student population of 18,799, of which about 10% are international students, and its faculty boasts roughly 2,300 full-time members.

Comprehensive in its academic reach, the university has 11 undergraduate schools, 18 graduate schools and 16 faculties as well as their affiliated research centers. The University celebrated its centennial in 2011.



Main Gate, College of Engineering,
Kyushu Imperial University



Einstein's Visit

Apr. 1903 Fukuoka Medical College established.

Jan. 1911 Kyushu Imperial University established.

May 1949 Kyushu University established under National School Establishment Law.

Oct. 2003 Kyushu Institute of Design integrated.

Apr. 2004 Launched as National University Corporation.

May 2011 First centennial anniversary celebrated.

KYUSHU UNIVERSITY FUND

At Kyushu University, we have taken the 100th Anniversary as an opportunity to establish the "Kyushu University Fund". This charity fund is to further the research and education of students and young researchers by giving them the funding they need. With the help of this funding, we will continue to send leaders with a well rounded base of knowledge and a deep understanding in their field of specialization into the world by providing not only research funding but also by updating our facilities.

Mr. Masakazu Shiiki, the founder of Sanyo Shinpan Finance Co., Ltd., which was merged into SMBC Consumer Finance Group, has generously donated the money to fund the construction of the university hall, to commemorate the centenary of Kyushu University's founding. A reinforced concrete structure with four floors above ground and a total floor space of around 12,612m², it was built in the Center Zone of the Ito Campus in February 2014. The hall, which has a capacity of 3,000 persons, is housed in a circular building consisting of the hall and an administration block, with an indoor area, called galleria, at the front. The hall has some lecture theaters, and it also features exhibition area and a restaurant, so it is a facility that can be widely used by the local community and other members of the public for conferences, lectures, performances, and exhibitions. The SHIIKI HALL is the venue for the commencement in March, the entrance ceremony in April, and the ceremony to commemorate the opening of the university in May.



SHIIKI HALL



SHIIKI HALL

GRADUATE SCHOOL /GRADUATE FACULTY SYSTEM

Kyushu University has instituted a Graduate School/Graduate Faculty system - the first attempt of this kind at a Japanese university - as part of the overall reorganization of undergraduate and graduate education at the university in 2000.

In separating the former Graduate School into the Graduate School (the education body) and the Graduate Faculty (the research body to which faculty members belong), the University is seeking to revitalize relationships between the Graduate Faculty and the Graduate School, and the Graduate Faculty and Undergraduate School. These changes should promote a more dynamic functioning of the Graduate Faculty in its relation to the Graduate School and the Undergraduate School. (Refer to chart No.1 below.)

Under the Graduate School/Faculty system, all faculty members have been transferred from members of the Undergraduate Faculty to members of the Graduate Faculty. In addition, the educational body (Graduate School) and research body (Graduate Faculty) have become independent administrative entities. This new, more responsive administrative mechanism will enable Graduate Faculty members to participate more flexibly in the education of both the Undergraduate and Graduate School bodies. In implementing a more dynamic configuration of the education bodies (Undergraduate and Graduate Schools) and research body (Graduate Faculty), the university can more readily accommodate changes and shifts to pedagogic and research foci that may occur in the future.

Chart 1 Universities which have shifted their emphasis to Graduate School Education/Research

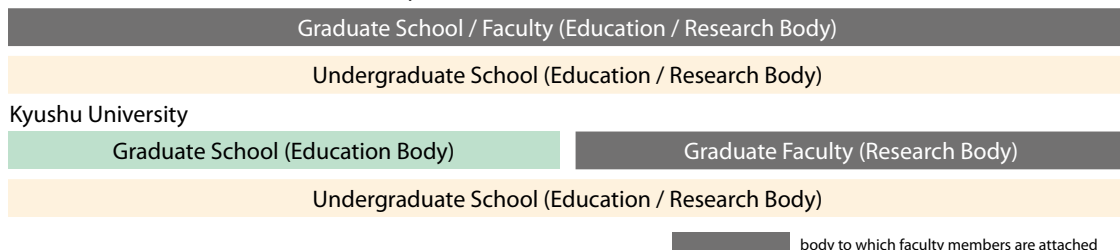
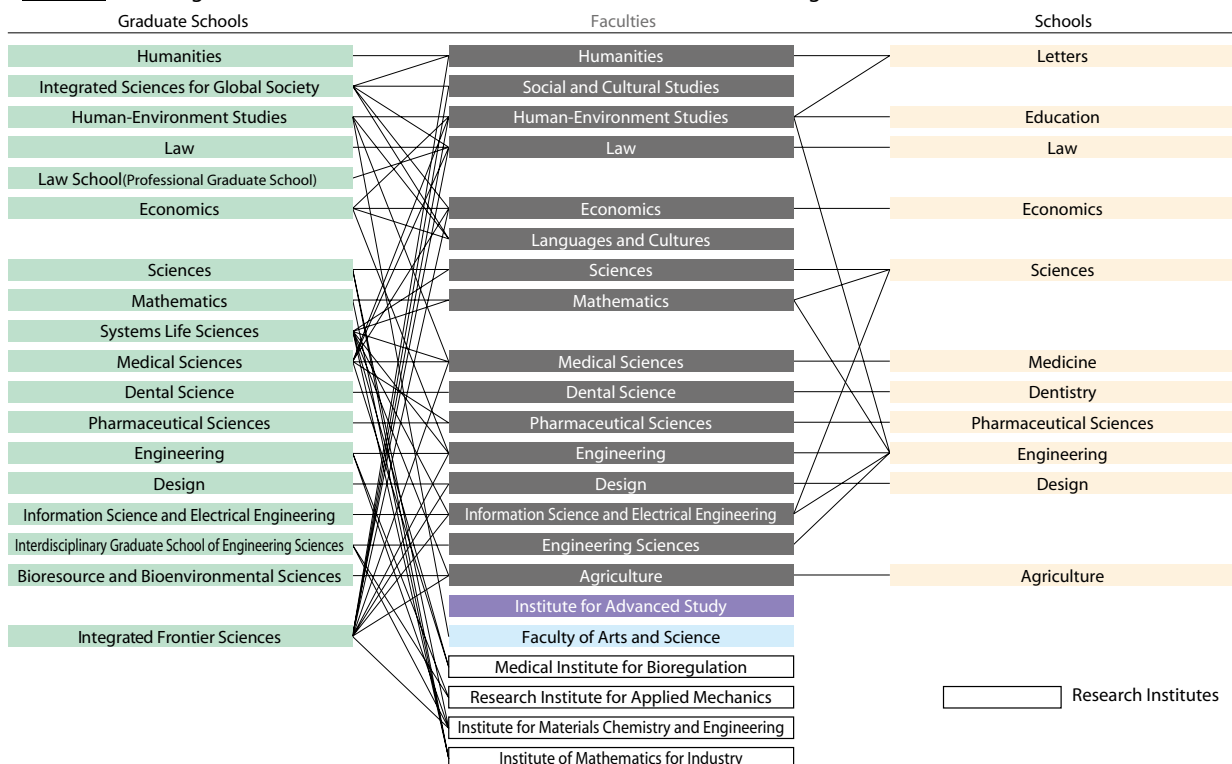
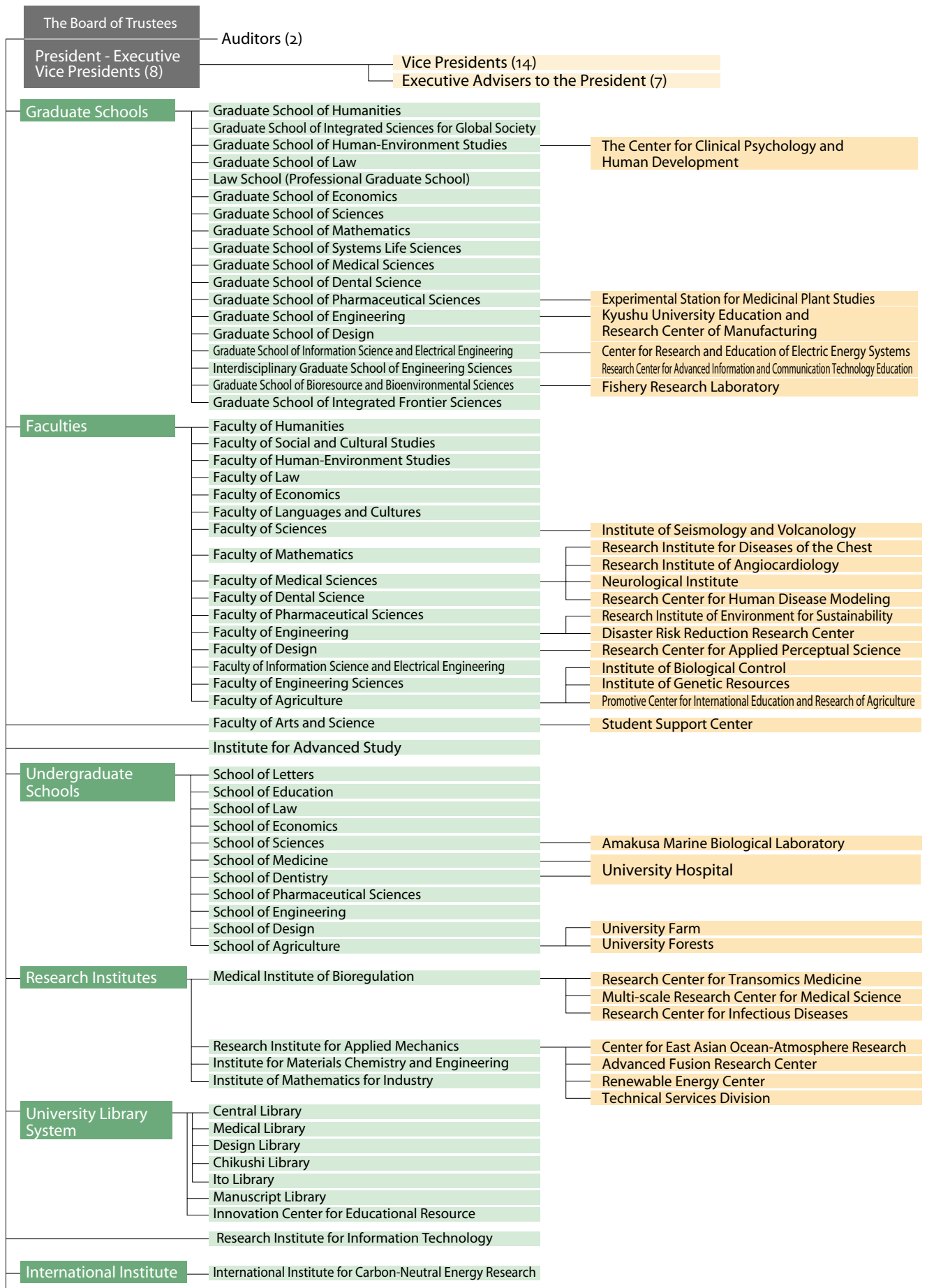
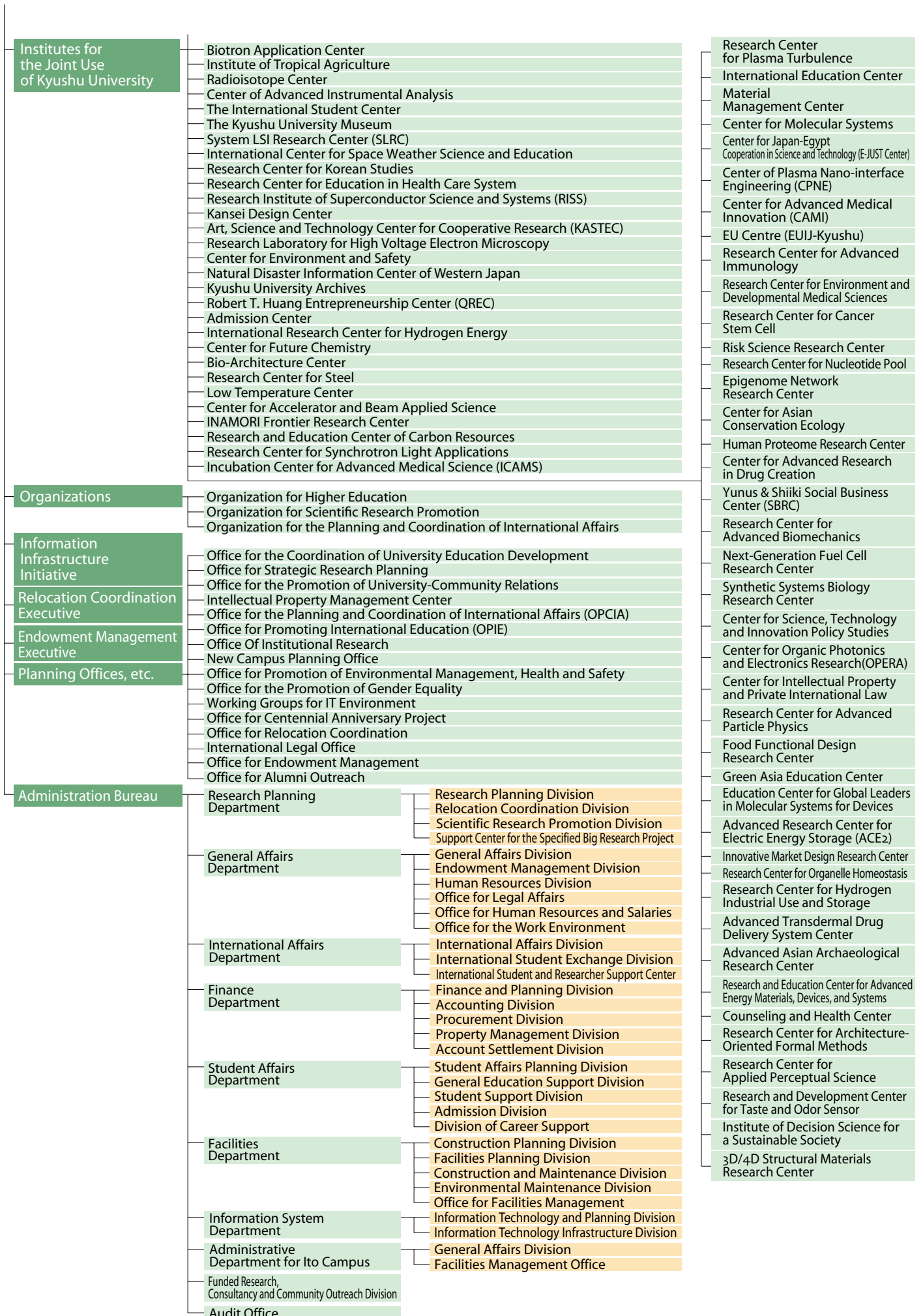


Chart 2 The Organization of Graduate Schools, Graduate Faculties and Undergraduate Schools



ORGANIZATION





Faculty of Humanities

Graduate School of Humanities

School of Letters

<http://www2.lit.kyushu-u.ac.jp/en/>



Graduate School of Humanities, Faculty of Humanities, School of Letters, Main Building

Research on

- Philosophy - Western Philosophy and the History of Western Philosophy, Ethics, Indian Philosophy, Chinese Philosophy, and Aesthetics and the History of Arts
- History - Japanese History, Asian History, Korean History, Archaeology, Western History, and the History of Islamic Civilization
- Literature - Japanese Language and Literature, Chinese Literature, English Language and Literature, German Literature, and French Literature
- Human Sciences - Linguistics/Applied Linguistics, Geography, Psychology, Comparative Religion, and Sociology

Gazing into the Root of Human Existence, in Pursuit of Humanity's Universal Truth

With the introduction of the new Graduate School / Graduate Faculty system in 2000, all faculty members belonging to the former Faculty of Letters have been transferred into the Faculty of Humanities from which they are assigned to teach in both the Graduate School of Humanities and the School of Letters.

The original Faculty of Letters was founded in 1924 by an imperial decree as an adjunct curriculum of the Faculty of Law and Literature of Kyushu Imperial University. It then came into being as an independent faculty in 1949. The Graduate School was later established in 1953.

The School of Letters now offers 21 subjects of study within four disciplinary fields: Philosophy, History, Literature, and Human Sciences.

The Graduate School consists of a two-year master's course and a three-year-plus doctorate course in 10 specialized fields: Philosophy and Ethics, Asian Philosophy, Art Studies, Japanese History, Asian History, History of Wide Area Civilization, Geography, Japanese and Chinese

Literature, Western Literature, and Linguistics.

Our Faculty and Schools have a strong desire to promote international exchange and have recently accepted, mostly into the Graduate School, a larger number of students from Europe, North and South America, Asia and the Pacific regions. There are currently 92 foreign students from 6 different countries and regions.

Approximately 10,000 students have now graduated from the Undergraduate and Graduate Schools. Most of them are currently, or have been, actively engaged in education, research work, the civil service, business, journalism and various other fields. The schools as a whole boast a book collection of over a half million volumes, and more than fifty faculty members are actively engaged in research projects.

In both schools, the starting month of enrollment is April. In the doctorate course, October enrollment is an option. Entrance examinations for the Graduate School, for foreign students, include tests of Japanese language.



Studying artwork collected by the faculty

Faculty of Social and Cultural Studies

Graduate School of Integrated Sciences for Global Society (2014.4.1 ~)

<http://isgs.kyushu-u.ac.jp/>



Graduate School of Integrated Sciences for Global Society, Main Building

Research on

- Earth Sciences
- Biological Sciences
- Environmental Sciences
- Biological Anthropology
- Geography
- Archaeology
- History
- Cultural Anthropology
- Sociology
- Politics
- Economics
- Literature
- Linguistics
- Gender Studies
- Japanese Language Education
- Japanese and Asian Regional Studies

Exploring Mother Earth and its Organisms and Addressing Global Issues

The Graduate School of Integrated Sciences for Global Society will be established in 2014, replacing the previous Graduate School of Social and Cultural Studies, which was founded in 1994. Our Graduate School takes as its fundamental principle, "Integrated interdisciplinarity based on a global perspective".

This means pursuing the study of the shared Global System of humanity and other living organisms that live on our planet Earth, as well as the various urgent and complicated issues facing today's global society, based on a true integrated interdisciplinarity, which breaks the barriers between the humanities and the natural sciences. This requires us not simply to widen our scope in terms of space, but also in terms of time to include the spans of humanity, biological evolution, and earth history.

The range of our School's education and research can be seen in the spectrum of

mutually connecting themes: global evolution and tectonics, climate and disasters, natural resources and the environment, atmosphere and water, biological diversity, food, discrimination and rule, welfare, tolerance and coexistence, mutual understanding, representations, media, consensus building, communication, education, reciprocal diversity, and cultural diversity in East Asia and Japan. In order to effectively educate about this wide variety of research subjects, we have created the following six courses.

- Comprehensive Earth Sciences
- Comprehensive Science of Biological Environment
- International Cooperation, Security and Safety
- Social Diversity and Coexistence
- Language, Media, and Communication
- Comprehensive East Asian and Japanese Studies



Field excursion on advanced interdisciplinary study of Archaeology and Earth Sciences

Faculty of Human-Environment Studies

Graduate School of Human-Environment Studies

<http://www.hues.kyushu-u.ac.jp/english/>



AUSMIP program

Research on

- Urban Design, Planning and Disaster Management
- Clinical Psychology and Community Studies
- Behavioral and Health Sciences
- Education
- Architecture
- Clinical Psychology Practice

Welcome to the New Paradigm of Human-Environment Studies!

The Graduate School of Human-Environment Studies was established in April 1998 by merging the Faculty of Education, sections from the Faculty of Letters, and the Department of Architecture from the Faculty of Engineering, with the aim of developing interdisciplinary research and education that take a cross-sectional approach to both humanities and sciences. Further, to better promote interdisciplinary research activities and create new academic paradigms relating to human environments, the Faculty of Human-Environment Studies was established in April 2000. The faculty is composed of three sections: the Department of Human Sciences, the Department of Education, and the Department of Architecture and Urban Design. Cooperative faculties are the Faculty of Arts and Science and the Faculty of Languages and Cultures. In addition, since 2005, we have offered the professional degree program of applied clinical psychology, which is the first

program of its kind in Japan.

The school consists of six courses: Urban Design, Planning and Disaster Management, Clinical Psychology and Community Studies, Behavioral and Health Sciences, Education, Architecture, and Clinical Psychology Practice (Professional Graduate School). As shown through the organizational structure, education and research in the school are intended to cover very broad fields while encouraging scholars and students from diverse backgrounds to work together on the challenges of this century.

For the first decade of this century, society has been facing more serious issues, particularly in terms of environment and human coexistence. To address these issues, the school provides new interdisciplinary programs. Our programs include the Sustainable Architecture and Urban Systems program and the International Social Development program.



Early intervention program for child development

Faculty of Law

Practical Law and Politics toward the 21st Century

Graduate School of Law

School of Law

<http://www.law.kyushu-u.ac.jp/programsinenglish/>



LL.M Graduation Ceremony

The Faculty of Law was founded in 1924 as a department within the former Faculty of Law and Humanities, and achieved fully independent status in 1949. The current faculty offers 4-year undergraduate courses, 2-year Master's courses, and a 3-year doctoral course. The Faculty is home to 63 Faculty members; 857 undergraduate students, and 131 graduate students, including 67 international students (as of May 2013).

The School of Law at Kyushu University offers as many as 100 classes at the undergraduate level, including both law and political science programs. The students receive intensive academic training by working closely with their professor and other participants.

In the Graduate School of Law, an LL.M. program on international economic and business law was established in 1994. It is

the first program to be taught entirely in English by a Japanese university. Since then, Kyushu University has been at the forefront of international legal education in Japan. In 1999, a second Master's course (CSPA) and an LL.D. program were launched. The success of these programs led to the Graduate School of Law being selected by the Ministry of Education to host the Young Leader's Program (YLP) in Law. Finally, in 2009, the Bilingual LL.M. degree program in Law (or BiP) was launched, offering students the unique opportunity to take classes in graduate level study of law and write a thesis in English, while participating in seminars held in Japanese.

The Faculty of Law is innovative and forward looking, to better meet the needs of society as a leading academic institution in Japan.

Research on

- Fundamental Legal Science
- Public Law
- Social Law
- Private Law
- Criminal Law
- International Legal Studies
- Political Science



Open Campus

Law School

Think like a Lawyer – Small Classes Covering a Range of Legal Subjects Taught in a Socratic Fashion - We have Educated a Number of Influential Legal Professionals in Japan.

Since its launch in April 2004, the Law School has aimed at educating legal professionals to meet the needs of clients in a professional and considerate manner, and to adopt a balanced perspective that takes into account the opinions of other legal professionals, as well as the general public.

The Law School offers more than one hundred subjects divided into four main areas; Basic Law, Legal Practice, Fundamental Jurisprudence and Advanced Subjects. Classes are taught by twenty full-time faculty members and fifty-eight adjunct professors, many of whom have professional knowledge and experience working as legal counsel, judges, and public prosecutors. All faculty members are renowned specialists in their field.

The Law School has the following

distinctive features: Firstly, each class is composed of a small number of students, and is conducted in an interactive environment with active student participation. Secondly, a tutor system enables each student to consult with a tutor professor on any study related issues they may have. Thirdly, the Law School employs a number of online systems for the distribution of teaching materials, and to advise students about their studies. Fourthly, a systematic curriculum encompasses basic, applied and advanced courses ensuring that the individual needs of students are met. Finally, the Law School delivers a number of courses closely linked to other law schools in the Kyushu area, and works closely with the Fukuoka Bar Association.



Carrels

Research on

- Legal Theory and Practice



Moot court

Faculty of Economics

Flexibility and Long-term Perspective

Graduate School of Economics

School of Economics

<http://www.econ.kyushu-u.ac.jp/english/index.php>



Faculty Building

Research on

- Economic System Analysis
- Economic Analysis and Policy
- Mathematical and Computer Sciences
- Industry Analysis
- Management
- Accounting
- International Economic Analysis
- International Business Analysis
- Business and Technology Management

The former body of the faculty was established in 1924, and it became the Faculty of Economics in 1949. It has since developed into one of the most important bases in Japan for training highly talented professionals for business and academics as well as central and local governments. Now, the Faculty of Economics consists of four departments.

In 1977, the Department of Economic Engineering was founded in response to the development of new fields applying economics, engineering, and mathematical techniques to the analysis of problems in real economy and management. It is comprised of three major specialized fields: Economic System Analysis, Economic Analysis and Policy, and Mathematical and Computer Sciences. The Master's Program in the Graduate School of Economic Engineering enrolls 20 students each year. The Ph. D. program has an intake of 10 students each year.

The Department of Industrial and Business System, and the Department of

International Economic Study and Business Administration, offer instruction on multilateral, multilayered, and comprehensive analyses of economic systems by focusing on the following four areas: contemporary economy analysis, world economy analysis, industrial analysis, and corporate analysis. Because modern economic societies are formulated by the complex interaction between various factors in the global, national, and regional layers of economies and a variety of economic organizations and institutions, it is important to grasp these economic systems as a whole in order to address economic problems in the real world.

Finally, the Department of Business and Technology Management offers a graduate program of the Kyushu University Business School, or QBS, which celebrated its 10th year in April 2012. The goal of QBS is to educate business professionals who are well versed in management of industrial technology and Asian business.



Student Lounge

Faculty of Sciences

Graduate School of Sciences

School of Sciences

<http://www.sci.kyushu-u.ac.jp/e/>



Faculty of Sciences Main Building

Research on

- Physics
- Chemistry
- Earth and Planetary Sciences
- Biology

What are Materials? What is Space? What is life? Our Goals are to Explore these Questions

The Faculty of Sciences was established in April 1939, and now consists of four departments of physics, chemistry, earth and planetary sciences, and biology. Staff members belonging to the first three departments are affiliated with the Graduate School of Sciences, while those belonging to the Department of Biology provide instruction at the Graduate School of Systems Life Sciences. The staff members of the Faculty of Mathematics continue to be responsible for providing education in undergraduate courses.

Scientific study involves discovering nature's truths, and structuring a way to systematically explain universal principles. The Graduate School of Sciences trains cutting-edge researchers and professionals who can take an active role in the international arena. For the purposes, graduate students enroll in the Front Researcher Development Program or the Advanced Scientist Development Program.

Education and research in the Department of Physics covers the fields of elementary particle physics, nuclear physics, solid state physics, and statistical

physics. The Department also offers three lecture courses on informatics.

Education and research in the Department of Chemistry covers a wide range of fields in chemistry, including inorganic, organic, structural, physical, analytical, biological and theoretical chemistry. The Department of Earth and Planetary Sciences also works in close collaboration with both the Museum and the International Center for Space Weather Science and Education to engage in a variety of educational and research fields including planetary sciences, geophysics, geochemistry, mineralogy and geology. Major projects in the Department of Biology focus on modern aspects of molecular, cellular and population biology. Advanced research and instruction in biology are carried out in the Graduate School of Systems Life Sciences.

In addition, the Faculty maintains specialist facilities: the Amakusa Marine Biological Laboratory in Kumamoto, the Institute of Seismology and Volcanology in Nagasaki, and the Hakozaki Campus Cryogenic Laboratory.



Mass spectrometer for spectroscopic studies

Faculty of Mathematics

Graduate School of Mathematics

<http://www.math.kyushu-u.ac.jp/eng/>



Faculty of Mathematics Building (Ito Campus)

Research on

- Number Theory
- Algebraic Geometry
- Differential Geometry
- Representation Theory
- Topology
- Complex Analysis
- Functional Analysis
- Harmonic Analysis
- Special Functions
- Dynamical Systems
- Integrable Systems
- Optimization
- Discrete Mathematics
- Operator Algebra
- Probability Theory
- Ordinary Differential Equations
- Partial Differential Equations
- Mathematical Physics
- History of Mathematics
- Numerical Analysis
- Computational Mathematics
- Statistics
- Control Theory
- Cryptography

Mathematics for the Future

The Faculty of Mathematics was established in 1994 as a result of the merger of three existing departments of mathematics within the university. The current department consists of about fifty mathematics educators and researchers. A large number of visiting scholars also contribute to the enhancement of research activities.

The Faculty of Mathematics is engaged in a wide range of mathematics research and education at Kyushu University. In addition to instruction in differential and integral calculus, linear algebra, and other courses essential to departments throughout the university, the Faculty also offers specialized mathematics to the engineering departments and graduate-level mathematics to the Graduate School of Information Science and Electrical Engineering and the Graduate School of Systems Life Sciences. Faculty Mathematicians also teach and train some 250 undergraduate (School of Sciences) Mathematics Majors.

In addition to instruction, the Faculty of Mathematics pursues advanced research covering mathematics and a broad range of

specialized areas in mathematics-related fields. Its prolific research activities reflect its role as a prominent mathematics research center in Japan. The Faculty of Mathematics actively pursues research, education, and personnel exchanges with universities, research institutions, and corporations both inside and outside Japan.

The members of the Faculty also teach, train, and advise students of the Graduate School of Mathematics. The Graduate School is, in fact, an institution for training and research of various mathematical fields. The School hosts around two hundred students, a quarter of whom are in the Doctoral Course, and about 20 Post Docs.

Faculty and Graduate students' research fields range from the deepest core of mathematics to the most advanced mathematics.

In April, 2011, the Faculty of Mathematics reorganized and separated into the Faculty of Mathematics and the Institute of Mathematics for Industry, composed of about 50 and 25 staff respectively. These two organizations are educationally responsible for the Graduate School of Mathematics.



Class

Graduate School of Systems Life Sciences

For the Progress of Life Sciences

<http://www.sls.kyushu-u.ac.jp/>

The life sciences are about to be transformed, thanks to evolutionary events such as the rapid accumulation of genome data and the progress made in measurement and imaging techniques. The seamless collaboration of biology, informatics and engineering will be essential to further pursuing life sciences in the coming decades. Based on this understanding, the Graduate School of Systems Life Sciences has been organized to establish a globally competitive education and research core through the faculties of several disciplines, including informatics, engineering, agriculture, biology, and medicine. The Graduate School provides a five-year Doctor's course to nurture global leaders in research and education in Life Sciences and to produce topflight professionals with interdisciplinary expertise, all equipped with a double major in biology and informatics or biology and engineering.

Currently, Systems Life Sciences experts engage in research to advance the frontiers of the life sciences through integrative biology that ranges from molecules, genes, cells, and organs, to individuals, populations and the environment. Further areas of inquiry include bioinformatics for personalized medicine, gene therapy, and drug design based on genome information, as well as the biotechnological production of advantageous substances, regenerative medicine based on tissue engineering, nanomedicine, and various advanced fields of biomedical engineering. Within this Department, the biological disciplines, including medical molecular cell biology, molecular life sciences, and biological sciences, are all functionally joined with bioinformatics and life engineering. The school seeks to nurture global leaders of research and education in the life sciences, and to produce global professionals with interdisciplinary expertise.

Research on

- Bioinformatics
- Life Engineering
- Medical Molecular Cell Biology
- Molecular Life Sciences
- Biological Sciences



An interactive learning environment

Faculty of Medical Sciences

Graduate School of Medical Sciences

School of Medicine

<http://www.med.kyushu-u.ac.jp/english/>



Faculty of Medical Sciences Building A of Basic Sciences

Research on

- Bioregulation
- Science for Biological Information
- Pathobiology
- Social Medicine
- Health Care Administration and Management
- Advanced Medical Initiatives
- Internal Medicine
- Surgery
- Reproductive and Developmental Medicine
- Molecular Cell Biology
- Biology of Sex Difference
- Medical Education
- Stem cell Biology and Medicine
- Nursing
- Medical Quantum Science
- Medical Technology

To Be The Best Faculty of Medicine in Japan in 2020

The Faculty of Medicine was founded in 1903 as the Fukuoka Medical College attached to Kyoto Imperial University, and was later incorporated into the newly established Kyushu Imperial University in 1911. The Faculty now covers every field of basic and clinical medicine. The Graduate School of Medical Sciences was organized in 1955 and has included various sections of Molecular Medicine and of Molecular Biology since 1986. Also attached to the Faculty are the Research Institute for Diseases of the Chest, the Research Institute of Angiocardiology, the Neurological Institute, the Center of Biomedical Research, and the Center for Research and Practice in Medical Education. The University Hospital attached to the Faculty was established in 1903. The Faculty of Medicine has also established agreements with eight foreign medical schools to promote academic cooperation in both education and research. Many postgraduate students from abroad are now studying at various departments of the Faculty.

The organization of the Graduate School was completely changed in April 2008 and

seven different departments: Integrative Biomedical Sciences, Reproductive and Developmental Medicine, Pathological Sciences, Medicine and Surgery, Physiological Sciences, Environmental Health and Socio-Medical Sciences, and Molecular Biology, were organized into one department, Medical Sciences, to promote the integration of medical science with the research field of systems based on clinical and basic medicine. Master courses for Health Care Administration and Management and for the Graduate School of Medical Sciences started in 2001 and 2003, respectively. And the Department of Health Sciences, School of Medicine (Nursing Course, Radiological Sciences Course, and Medical Technology Course) started as a 4-year Professional School in October 2002. The Department of Biomedical Science started as a 4-year school in April 2007, focusing on the development of young biomedical scientists and biomedical engineers. Master and Doctor Courses in Health Science started in April 2007 and April 2008, respectively.



A Medical Biochemistry Practice Session

Faculty of Dental Science

Graduate School of Dental Science

School of Dentistry

<http://www.dent.kyushu-u.ac.jp/eng/>



Main Research Building

Toward the Core of Excellence in Oral Health Science and Advanced Dental Education in the World

The Faculty of Dental Science, Graduate School of Dental Science, and School of Dentistry are the sole components of oral health research, dental and craniofacial regenerative medicine and research, and graduate and undergraduate education for dentistry in Kyushu University. The Faculty of Dentistry was founded in 1967 as an independent faculty, superseding the Department of Dentistry and Oral Surgery (founded in 1922) of the Faculty of Medicine. The original Faculty of Dentistry was reorganized in April 2000 into three separate units as described above. The Faculty of Dental Science focuses on the cutting edge research for oral health science and dental and craniofacial regenerative dentistry. Currently, the Faculty of Dental Science consists of four major divisions and two subsidiary divisions. The major divisions are the Division of Oral Biological Sciences; the

Division of Oral Health, Growth and Development; the Division of Oral Rehabilitation; and the Division of Maxillofacial Diagnostic and Surgical Science. The Graduate School of Dental Science provides graduate education that culminates in a Ph.D degree. The School of Dentistry is responsible for undergraduate education, to provide the knowledge and skills needed for oral health practice. The major objective for education of the graduate and undergraduate curricula is to nurture top scientists and educators, and clinical professionals, all of whom are capable of becoming international leaders in the oral health science profession. We are excited about the opportunity to study with intelligent individuals with advanced skills who will be capable of contributing to the overall wellness in human health throughout the world. We welcome you to join us.

Research on

- Oral Biological Sciences
- Oral Health, Growth and Development
- Oral Rehabilitation
- Maxillofacial Diagnostic and Surgical Sciences
- Oral Health, Technology and Epidemiology



Lecture in the School of Dentistry



Team-Based Learning in the School of Dentistry



Intermediate presentation awards ceremony in the Graduate School of Dental Science

Faculty of Pharmaceutical Sciences

Graduate School of Pharmaceutical Sciences

School of Pharmaceutical Sciences

<http://www.phar.kyushu-u.ac.jp/eng/>



The Building of the Pharmaceutical Sciences Department

Research on

- Clinical Pharmacy
- Medicinal Sciences

Pharmaceutical Sciences to Serve Human Health

The Faculty of Pharmaceutical Sciences was founded in April 1950, and the Graduate School of Pharmaceutical Sciences was established in 1953. They are currently home to 21 laboratories, including one collaborative and one endowed laboratory. With its 63-year history and numerous research achievements, the Faculty has greatly contributed to the advancement of learning and is a recognized leader in its field. The chief educational objective of the Faculty has been the training of students capable of actively contributing to the advancement of pharmaceutical sciences in their capacity as research scientists, educators and technical experts. Our responsibility at the Graduate School is to provide our students with the knowledge and techniques needed for the development of new medicines, and with the technologies needed for their production. The graduate students are expected to put this strong background of knowledge and technologies to actual practice. In April 2006, the Department of General Pharmaceutical Sciences was reorganized into two departments, the Department of Clinical Pharmacy (six-year program aimed at producing pharmacists or drug specialists in clinical fields) and the Department of Medicinal Sciences (four-year program aimed at producing research scientists and technical experts in the fields of drug development with 2-year Master's course). There are four courses in the International Program: Medicinal Chemistry, Pharmaceutical Biochemistry, Physical Pharmaceutics, and Clinical Pharmaceutics. Although the international program is only available for the Master's course of Medicinal Sciences, foreign students who take advantage of this unique program will realize significant benefits. After the six-year program in Clinical Pharmacy or Medicinal Sciences, students can choose to continue on to a Ph.D. course. In each Ph.D. course,

they will concentrate on cutting edge research for three years (for Medicinal Sciences) or four years (for Clinical Pharmacy) and obtain their Ph.D. degree. The topics of research in these Ph.D. courses cover widely divergent fields of pharmaceutical sciences, including medicinal chemistry, biology, biochemistry, pharmacology, physical chemistry, pharmacokinetics and pharmaceutics.



Practical Work

Faculty of Engineering

Graduate School of Engineering

School of Engineering

<http://www.eng.kyushu-u.ac.jp/e/index.html>



Functional transparent nanomaterials for optical, electronic and bioengineering fields

Engineering the Future

The Faculty of Engineering consists of ten departments that cover all aspects of engineering, from the traditional to the innovative. The engineering community, which is made up of the faculty, post-doctoral students, graduate students, undergraduates, and other researchers at Kyushu University, is dedicated to the development of new technologies in the 21st century.

Although our research interests are diverse, great focus is placed on preserving and improving the natural environment, developing increasingly efficient energy resources, and producing innovative materials. We play leading roles in the flagship research centers and institutions in Kyushu University, such as Research Institute for East Asia Environments; International Institute for Carbon-Neutral Energy Research; and the Center for Organic Photonics and Electronics Research. We work collaboratively with

other faculties to realize an energy efficient and environmentally friendly society for the future.

In terms of education, the School and the Graduate School of Engineering prepare students for the challenges they will experience as they improve the world, and provide an in-depth engineering education and encouragement for students to apply what they learn through projects, internships, and research.

Emphasis is placed on internationalization. We offer several engineering programs where all classes are taught in English. We have exchange agreements with over forty leading universities and institutions abroad. Through worldwide collaborations, we are determined to continue being a hub of international education and research to contribute to solving global issues in engineering.

Research on

- Chemical Engineering
- Applied Chemistry
- Materials Science and Engineering
- Civil Engineering
- Urban and Environmental Engineering
- Marine Systems Engineering
- Earth Resources Engineering
- Applied Quantum Physics and Nuclear Engineering
- Mechanical Engineering
- Aeronautics and Astronautics



Computerized planar motion carriage (CPMC) and plunger type wave maker installed in the Seakeeping and Maneuvering Basin. These facilities are used for model experiments to study ships and floating bodies.

Faculty of Information Science and Electrical Engineering

Graduate School of Information Science and Electrical Engineering

<http://www.isee.kyushu-u.ac.jp/e/>



Rescue Robot

Research on

- Informatics
- Advanced Information Technology
- Electronics
- Electrical Engineering
- I&E Visionaries

Toward an Advanced Information Society Using "I & E" Technologies

The Graduate School of Information Science and Electrical Engineering (ISEE) was established in 1996 as one of the first graduate schools in Japan designed to enable a comprehensive study of both Information and Electrical–electronics, known as I & E Technologies. The school was built to meet the great demand for highly educated graduates who are capable of leading an advanced information society in the 21st century based on the new technologies developed in the fields of electrical and electronic engineering, communication engineering, and computer science.

At the Center of Excellence (COE), within the ISEE, our faculty members lead many important research and educational activities at Kyushu University, as well as the graduate and undergraduate programs. These include the following noteworthy programs at the ISEE: RISS-Research Institute of Superconductor Science and Systems; QITO-the educational program for Information Communication Technology Architect; and E-JUST Center-Center for

Japan–Egypt Cooperation in Science and Technology.

The Graduate School is currently made up of three departments: the Department of Informatics, the Department of Advanced Information Technology, and the Department of Electrical and Electronic Engineering. Most faculty members also teach undergraduates in the Department of Electrical Engineering and Computer Science, the School of Engineering. The faculty members of the Department of Informatics also teach in the Informatics Course in the Department of Physics, the School of Sciences.



Taste sensing system for digitizing taste characteristics



Virtual reality application development

Faculty of Design

The Humanization of Technology

Graduate School of Design

School of Design

<http://www.design.kyushu-u.ac.jp/kyushu-u/english/index>



Dynamic Projection Mapping

The programs at the Faculty of Design promote the “humanization of technology”, and prepare students to become leaders and contribute greatly to society throughout their professional life. At the School of Design and the Graduate School of Design, the fundamentals of human physiology and psychological behavior are taught, and artistic sensibilities are stimulated.

The Graduate School of Design consists of two departments: Design and Design Strategy. The Department of Design consists of five courses: Human Science, Human Science International Course, Communication Design Science, Environment and Heritage Design, and Content and Creative Design. The Design Department’s mission is to apply technology through the integration of science, technology, and art. The unique curriculum at the Graduate School provides

students with cutting edge knowledge on the advances in various technologies and processes to design innovative functions that can be integrated into our daily lives. The mission of the Design Strategy Department is to develop sound judgment, creative abilities, and professional designs. It further provides practical experience to prepare students for the diverse coordination and orientation needed in strategically implementing their designs.

The School of Design consists of five departments: Environmental Design, Industrial Design, Visual Communication Design, Acoustic Design, and Art and Information Design. The undergraduate program is treated with great importance since it enables students to learn the basis of design thoroughly, and to meet the social needs for human development. The undergraduate programs also provides the path to higher education.

Research on

- Human Science
- Communication Design Science
- Environmental Design
- Content and Creative Design
- Design Strategy



Ergonomics

Faculty of Engineering Sciences

Interdisciplinary Graduate School of Engineering Sciences

<http://www.tj.kyushu-u.ac.jp/en/index.html>



Research on

- Electrical Engineering
- Material Engineering
- Nonlinear Material Physics
- Material Characterization
- Solid Surface Science
- Design of Functional Materials
- Physical Chemistry and Chemical Physics
- Thermal and Fluids Engineering
- Development of Advanced Materials
- High Density Energy Science
- Engineering Science for Energy Systems
- Advanced Energy System Technology
- Fluid and Thermo Dynamics
- Thermal Environment Engineering
- Fluid Environmental Research
- Advanced Energy Materials, Devices, and Systems
- Global Strategy for Green Asia
- Energy and Environmental Science and Technology
- Carbon Resources

The Interdisciplinary Graduate School of Engineering Sciences is a Community that is Dedicated to Creating Tomorrow's Leaders and Supporting Today's Pioneers.

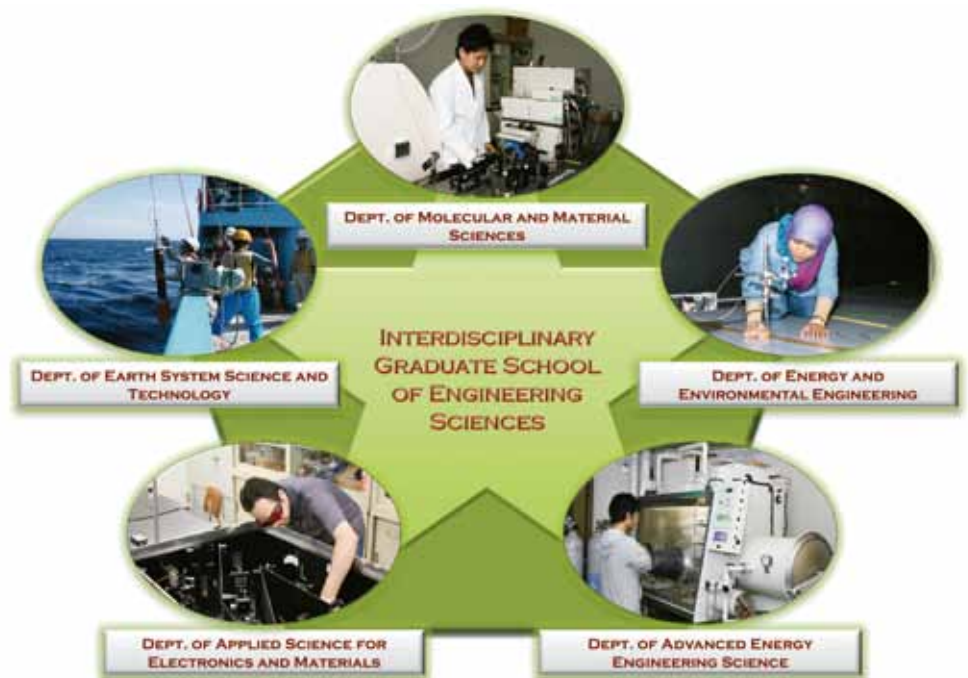
Founded in 1979, the Interdisciplinary Graduate School of Engineering Sciences is home to five academic departments: Advanced Energy Engineering Science, Applied Science for Electronics and Materials, Earth System Science and Technology, Energy and Environmental Engineering, and Molecular and Material Sciences.

The mission of the Graduate School is to provide comprehensive interdisciplinary education and research programs, and to develop each student's ability to acquire and critically interpret knowledge in materials, chemistry, energy and environment.

The Graduate School aims to provide students with a solid foundation that prepares each of them to adapt successfully throughout their careers to advances in

technology. With the commitment to excellence in the teaching and research programs, our quality of education has been recognized by many industrial recruiting organizations with high employment rates of 90% for master's degree graduates and 61% for doctoral degree graduates.

As of 2013, the Graduate School is home to about 400 master students, 140 doctoral students, and a faculty of 130 engineers and applied scientists. Our international enrollment has increased tremendously in the past few years with more than 95 students from China, India, Korea, Taiwan, Thailand, and a host of other countries. The number of the international students is about 5% and 55% for the master's program and the doctoral program, respectively.



Five departments in the Interdisciplinary Graduate School of Engineering Sciences

Faculty of Agriculture

Graduate School of Bioresource and Bioenvironmental Sciences

School of Agriculture

<http://www.agr.kyushu-u.ac.jp/english/>



Agri-Bio Research Laboratory, Ito Campus

Research on

- Agricultural Bioresource Sciences
- Animal & Marine Bioresource Sciences
- Forest Sciences
- Bioproduction Environmental Sciences
- Agronomy & Environmental Sciences
- Sustainable Bioresource Science
- Agricultural & Resource Economics
- Molecular Biosciences
- Systems Biology
- Applied Molecular Microbiology & Biomass Chemistry
- Food Science & Biotechnology

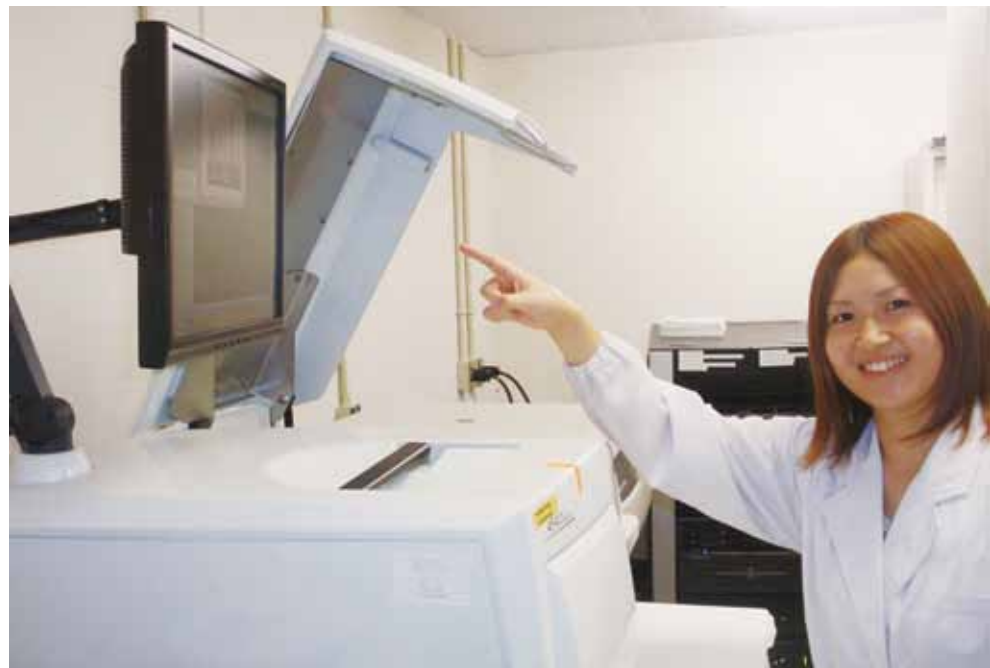
Opening a New Future for Agri-Bio Sciences

The Faculty of Agriculture was established at Kyushu University in 1919, following the Faculties of Medicine and Engineering. It was the third Faculty of Agriculture established in Japan. Since 1919, the Faculty of Agriculture has continuously increased the quality and quantity of the educational and research activities it provides. Currently, the Faculty of Agriculture covers all of agriculture and its related fields, and emphasizes COE-level research in life and environmental sciences. Our research and education programs incorporate a broad spectrum of disciplines including biological, chemical, physical, mathematical, social and environmental sciences. In addition, the Faculty of Agriculture has contributed to the education and training of academic leaders, advanced researchers, and specialized technicians from different countries throughout Asia.

Current student enrollment is 1627, of which 985 are undergraduate students and 642 are graduate students. More than 196 international students; mostly graduate

students; have come from various countries. The faculty members and staff members totals 496.

Since 2010, the Faculty has provided three programs on internationalization. Firstly, the International Development Research Course accepts foreign students in the Master's course under a new Asian Development Bank Japan Scholarship Program (ADB JSP). This ADB JSP enables us to keep four students in total in the Master's course each year. Secondly, we offer the module lecture subjects of the International Development Research Course to Japanese students. The third development is that the School of Agriculture has offered an international undergraduate program since October 2010. It is an undergraduate program supported by the Global 30 Project of Kyushu University, and the instruction is entirely in English. We hope that these new programs will make the courses even more enjoyable and attractive for both current and future students.



A second-generation sequencing facility for the analysis of genetic resources of various organisms.

Graduate School of Integrated Frontier Sciences

<http://www.ifs.kyushu-u.ac.jp>



Lecture
(Department of Kansei Science)



Driving Simulator
(Department of Automotive Science)

Japan's First Graduate Schools to Focus on the Study of Kansei, Automobiles, and Library as Sciences

The Graduate School of Integrated Frontier Sciences (IFS) was established in April 2009 as a framework for intellectual exploration and education to open up new scientific frontiers, and to reorganize and integrate scientific knowledge. We seek to investigate critical issues facing contemporary society by exploring and integrating advanced and specialized scientific knowledge, as well as by producing highly skilled experts in scientific frontiers. The significance of promoting the integration of technical knowledge from the viewpoint of these challenges can be found in the fact that this results in the creation of completely new scientific knowledge. The IFS is composed of three departments.

The Department of Kansei Science was established for the purpose of developing highly capable experts who can promote kansei, which refers to technology user's sensitivity, feelings, impressions and emotions. These experts will be able to create value from the standpoint of the actual end-users, the main agents of

knowledge application, based on understanding human beings through kansei science.

The Department of Automotive Science exists for the study of a variety of the issues involving automotive frontier technologies, humanities, the environment and energy from the standpoint of the automobile industry, and to develop highly capable experts who can find innovative solutions for these issues. To achieve academic gains in these areas, researchers are garnered not only from the engineering sciences, but also from the social sciences and human sciences.

The Department of Library Science strives to develop highly capable specialists and researchers who can not only promote the development of users' intellectual activities based on library and information science, but also support users by supplying the constructive information and record management that will be needed to resolve important matters brought about by the rapid progress of the information society.



Symposium (Department of Library Science)

Faculty of Languages and Cultures

Comprehensive Research into Languages and Cultures of the World and General Language Education at the University

<http://flc.kyushu-u.ac.jp/>



Building of the Faculty

The Faculty of Languages and Cultures (FLC) pursues a wide range of research into languages and cultures of various regions of the world. The accomplishments of the Faculty are applied to the education of students at both the graduate and undergraduate level. The 21st century has rendered the world a single information network with the dramatic development of multimedia and the Internet. A thorough understanding of these developments is therefore essential for the study of languages and cultures in the modern world. Our Faculty has devoted itself to the interdisciplinary and international investigation of the contemporary community. To this end, the Faculty utilizes highly advanced information technology as well as more traditional research methods.

The FLC comprises two research departments: the Department of Linguistic Environment and the Department of Multicultural Society. The Department of Linguistic Environment studies languages, language use, and the linguistic

environment in a scientific and interdisciplinary manner. The Department of Multicultural Society investigates and nurtures cultural symbiosis via a critical investigation into the cultural and the linguistic aspects of international cooperation.

The staff of the two FLC research departments also belong to the Education Division, comprising seven language sections, including English, German, French, Spanish, Russian, Chinese and Korean. We are therefore also responsible for providing general language education with a view to developing students' practical language skills and intercultural understanding.

Recent research and education projects include designing language curricula for basic academic skills such as writing, presentation, and debating; developing online teaching materials in several languages; and cooperating with other faculties to offer English courses in post-general education programs.

Research on

- Language Education
- Linguistic Information
- International Symbiosis
- International Culture



Language seminar

School of Education

Researching Education, Human Development, and their Relationships with the Broader Human Environment

<http://www.education.kyushu-u.ac.jp>



Fieldwork in Hatae primary school

Research on

- Philosophy of Education
- History of Education
- Pedagogy
- Sociology of Education
- Educational Administration
- Adult and Community Education
- Comparative Education
- Developmental Psychology
- Cognitive Psychology
- Social Psychology
- Counseling Psychology
- Psychoanalysis
- Psychological and Educational Needs of Disabled Children
- Lifelong Developmental Psychology
- Environmental Psychology

The School of Education was founded in 1949, charged with providing academic leadership in the educational field for a democratizing post-war Japan. 'Education' is here defined in the broadest sense, encompassing all aspects of human development in relation to the social environment. We conduct research not only in formal educational contexts, but also in communities, homes, institutions, voluntary groups, and workplaces. Our work is international as well as Japan-focused, and spans a range of disciplines, including philosophy, psychology, history, anthropology, political science, management and comparative sociology.

Courses

The School of Education consists of two sections: Science of Education and Educational Psychology.

The section of Science of Education offers two programs: 'International Education and Culture', and 'Education and Social Planning'.

The former offers students the opportunity to study a wide range of

educational issues, in international or Japanese contexts, from a range of disciplinary perspectives. The latter offers a more practice-oriented training in the formulation and implementation of specific educational and social plans or projects.

The section of Educational Psychology also consists of two programs: 'Human Behavior' and 'Clinical Psychology'. The former provides a broad grounding in psychology, equipping students to understand and analyze contemporary human behavior in its social context. The latter fosters the expertise needed for effective clinical intervention, teaching students how to deal sensitively and sympathetically with those suffering from psychological distress or mental disability.

Our programs feature an emphasis on small group instruction and extensive opportunities for practical training and original research. Students are encouraged to work independently, pursue their own research interests, and engage in fieldwork in a variety of educational and social contexts.



International forum jointly held with Konju University, Korea

Faculty of Arts and Science

Cultivating Active Learners who will Solve the Various Issues Facing Society

<http://www.artsci.kyushu-u.ac.jp/>



Discussion by Students

The Faculty of Arts and Science is responsible for implementing a basic education curriculum. Here, basic education means a consistent bachelor's degree program, ranging from the first year of university through to specialized education.

The Faculty works to cultivate active individuals who will be able to meet the demands of a globalized society and create new knowledge through creative dialogue with those from different cultures.

Academic staff members who belong to

the Faculty of Arts and Science join many other teachers who take part from each faculty to run classes under one cross-disciplinary banner, and can carry out educational management by taking a comprehensive view of the whole curriculum.

This system will realize high quality basic education and smooth networks with specialized education, allowing students to develop the basics of consistent learning.

Research on

- Management of Liberal Arts Education
- Educational Development
- Admission
- Counseling
- Management of The 21st Century program



Brainstorming in Classroom

Institute for Advanced Study

We Commit to Excellence in Research, Teaching, and Extension.

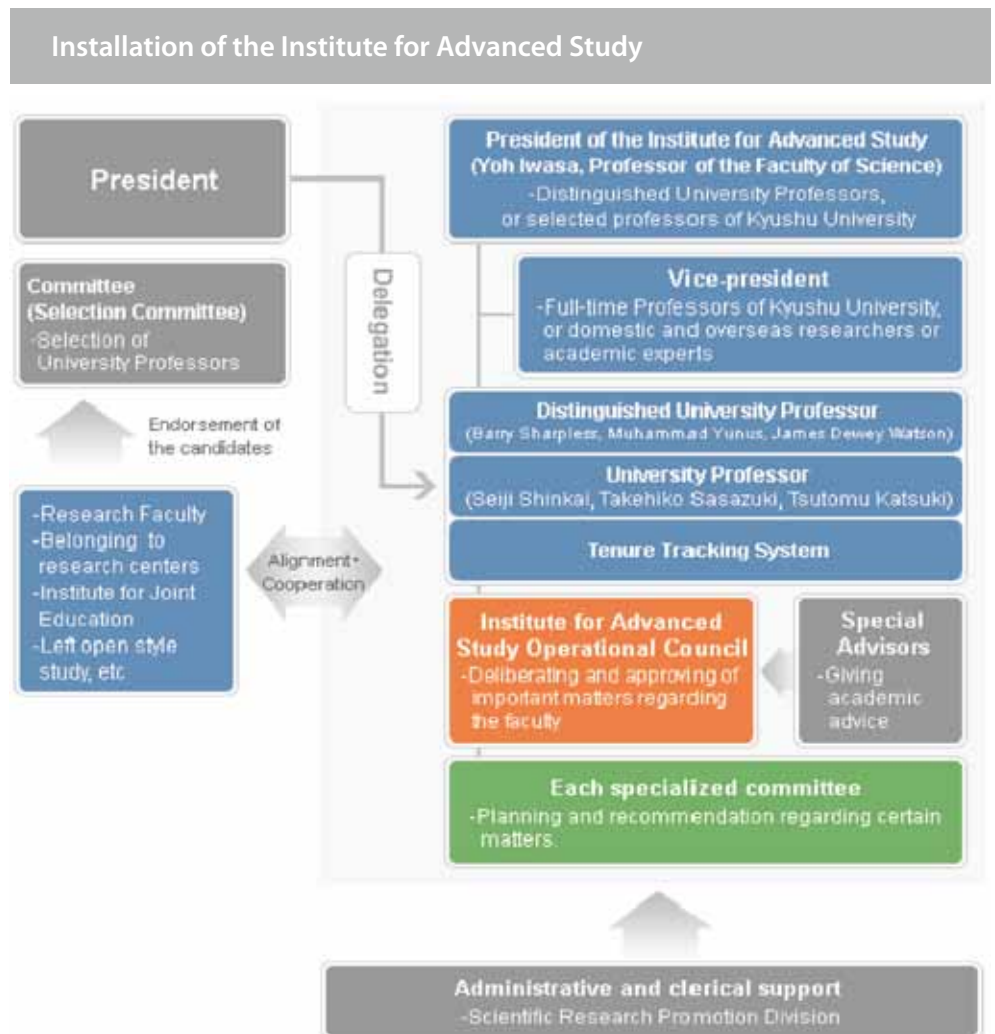
The Institute for Advanced Study (IAS) is promoting advanced research beyond the departments in Kyushu University. Kyushu University will be a center of global study and education for high standard research achievement. This will lead the academic community and benefit society through its achievements.

- Mission of the IAS
 Inspiring scientists by inviting world-reknowned scientists.
- (1) Develop advanced research
 - (2) Educate responsible young researchers who lead the next generation
 - (3) Provide excellent achievements to the world

<http://ias.kyushu-u.ac.jp/eng/>



Organization Chart



Medical Institute of Bioregulation

<http://www.bioreg.kyushu-u.ac.jp/>



Medical Institute of Bioregulation

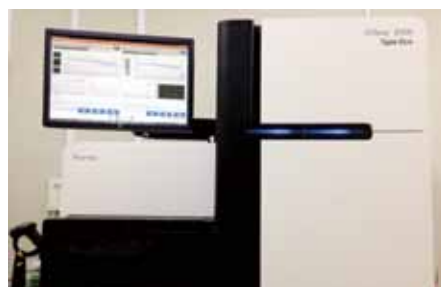
Research on

- Immunology
- Cancer biology
- Neurobiology
- Regeneration
- Cell therapy
- Structural biology
- Genomics
- Epigenomics
- Proteomics
- Bioinformatics

Research Hub for Host Defense Systems: Toward the Establishment of Treatments for Intractable Diseases

The Medical Institute of Bioregulation seeks to facilitate understanding of the key regulatory mechanisms involved in human biology at the molecular and cellular levels, with the long-term goal of finding cures for diseases. The human body is constantly exposed to a variety of threats, such as radiation or microbial infection that can lead to organelle malfunctioning, apoptosis, or tumorigenesis. Yet, most of the time, homeostasis is maintained, and the body survives. How do our bodies, organs, and cells thwart threats and prevent diseases? We believe that the answers to this question will enable us to control medical conditions ranging from infection, cancer and allergies to multi-factorial disorders such as degenerative diseases of the central nervous system.

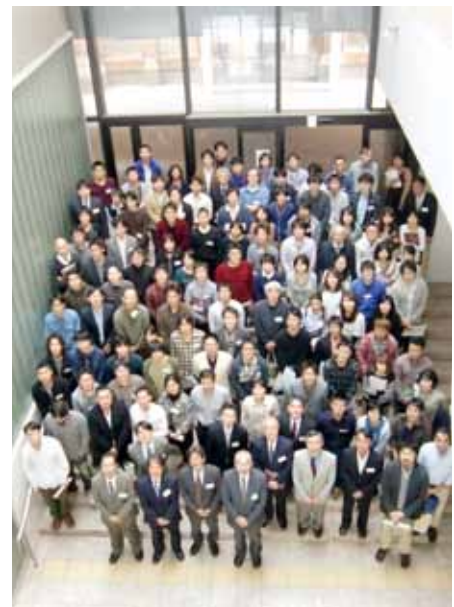
The Institute was founded in April 1982 and has undergone reorganization several times to achieve the above-mentioned goal in this rapidly changing age. The current organization consists of three departments and three research centers: the Department of Molecular Genetics (three divisions), the Department of Molecular and Cellular



State-of-the-art facility

Biology (two divisions), the Department of Immunology and Neuroscience (three divisions), the Research Center for Trans-omics Medicine (four divisions), the Multi-scale Research Center for Medical Science (five divisions), and the Research Center for Infectious Diseases (three divisions). In April 2010, the Institute was approved by MEXT (the Ministry of Education, Culture, Sports, Science, and Technology of Japan) as a Joint Usage/Research Center for Multi-scale Research of Host Defense Systems.

Despite its comparatively small 40-member faculty, the Institute is investing effort into assisting young scientists. By integrating the trans-omics and multi-scale approaches, cutting-edge technology and facilities, and the insight of young scientists, the Institute will keep striving to establish treatments for intractable diseases.



International Symposium 2013 "Recent Advances in Stem Cell Biology"

Research Institute for Applied Mechanics

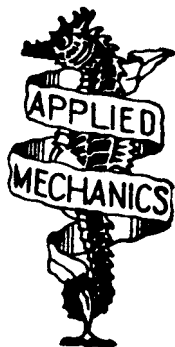
<http://www.riam.kyushu-u.ac.jp/english/index-e.html>



Main buildings of RIAM under autumn sky

Research on

- Renewable Energy and its Peripheral Technologies
- Nuclear Fusion Science
- Structure and Dynamics of Plasma
- Earth Environment Dynamics
- Ocean and Atmosphere in East Asia



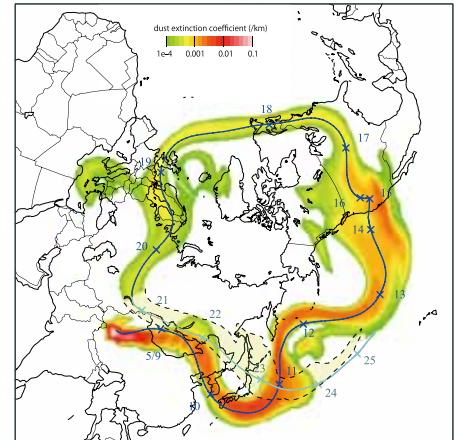
Leading Edge of Advanced Mechanical Studies and its Applications for Earth's Environmental and Energy Problems

The Research Institute for Applied Mechanics (RIAM) was established in 1951, with two research divisions to pursue research in fluid mechanics and solid mechanics. Through various reorganizations, RIAM was recognized as an interuniversity collaboration research institute and became a Center of Excellence (COE), nationally promoted by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in 1997.

RIAM was reorganized again and was recognized as the based research group of "Applied Mechanics" by MEXT in 2010.

At present, RIAM consists of three research divisions and three research centers: the Division of Renewable Energy Dynamics, the Division of Earth Environment Dynamics, the Division of Nuclear Fusion Dynamics, the Center of East Asian Ocean-Atmosphere Research (COAR), the Advanced Fusion Research Center (AFRC), and the Renewable Energy Center (REC). The research areas of RIAM encompass a wide range of experimental and theoretical fields from micro mechanical phenomena on an atomic scale to macro mechanical phenomena on a global scale. In addition to individual research at the divisions and centers of RIAM, three large research projects have been organized in interdisciplinary research areas; the ocean atmosphere science and engineering research project, the fundamental fusion research project utilizing a spherical tokamak "QUEST", and the project regarding efficient and integrated utilization of natural energies.

The RIAM academic faculty plays an important role in education by participating in the departments of the Interdisciplinary Graduate School of Engineering Sciences and the Graduate School of Engineering at Kyushu University.



Asian dust transported one full circuit around the globe



Kyushu(Q-shu) university experiment with steady state spherical tokamak (QUEST) to research fundamentals for a steady state operation of future fusion power plants



100kW Wind-lens turbine

Institute for Materials Chemistry and Engineering

Cutting Edge Research in Materials Chemistry

<http://en.cm.kyushu-u.ac.jp/>



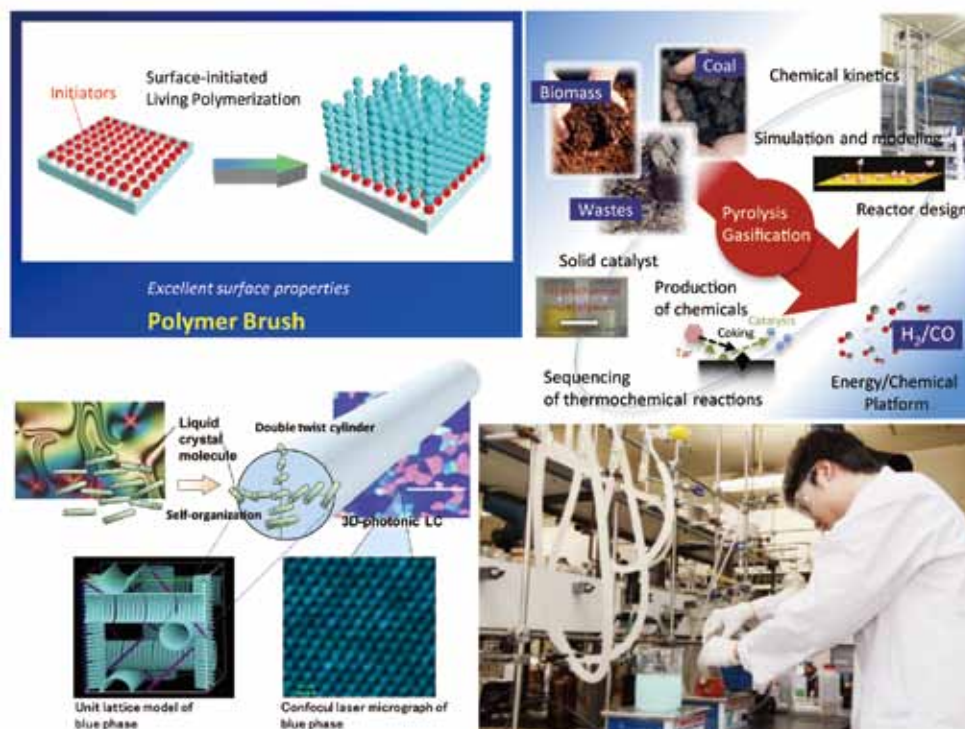
Institute for Materials Chemistry and Engineering

The Institute for Materials Chemistry and Engineering (IMCE) at Kyushu University was founded on April 1, 2003, following the merger and reorganization of the Institute of Advanced Material Study (a research institute attached to Kyushu University) and the Institute for Fundamental Research of Organic Chemistry (a joint education and research facility within Kyushu University). Since the reorganization, the IMCE has had two missions: to conduct cutting-edge research in areas from basic chemistry to process engineering, which concern the creation of highly functional molecules and materials, and the development of related devices utilizing their functional properties;

and to develop human resources through research. The IMCE is composed of four divisions. In cooperation with research groups related to the synthesis of new functional molecules, the chemistry of new molecular assemblies, the chemistry of organic-inorganic hybrid materials, and the processing of advanced functional materials into devices, research activity of the divisions is high enough to form a world-class core research group based on the fundamental science and application of the structure and functions of materials from a molecular, nanoscale, mesoscale to a macroscale.

Research on

- Fundamental Organic Chemistry
- Applied Molecular Chemistry
- Integrated Materials
- Advanced Device Materials



Research in Advanced Materials Chemistry

Institute of Mathematics for Industry

<http://www.imi.kyushu-u.ac.jp/eng>



Discussion between a graduate student and a young industrial researcher

Organizational Structure

The following research divisions have been established in the Institute to efficiently carry out the missions and projects.

Research on

- Advanced Mathematics Technology
- Applied Mathematics
- Fundamental Mathematics
- Laboratory of Advanced Software in Mathematics
- Visiting Scholar Division
- Office for Promotion of Collaboration and Consultation

Mathematics for Industry (MI) has been created by reorganizing pure and applied mathematics, and provides a foundation for future technologies.

Content of Activities

- Cooperative research responding to the demands from domestic and overseas industries, and a variety of fundamental mathematical research to support these collaborations
- Education of young researchers through stimulating research
- Workshops, international conferences and tutorials.
- Study groups (camps for solving unsolved problems in industry and other fields)
- Seminars for industry-academia partnerships and for partnerships with other fields
- Publication of a Lecture Note series(Mathematics for Industry), a Journal (Pacific Journal of Mathematics for Industry, renewed in 2014), and a Preprint series
- Activities of the Asia-Pacific-Consortium of Mathematics for Industry

Expected Outcomes

- Research personnel for both academic mathematics and useful mathematics will be nurtured through a close partnership with the Faculty of Mathematics.

- Partnerships with other fields will be greatly developed by pursuing interdisciplinary research around mathematics.
- Cooperative research with talented industrial researchers will be promoted, and, through these activities, a framework can be built in which academic exchanges with educated personnel are made. This framework will be a realization of a new mathematical research culture in Japan
- The need for education at the Graduate School of Mathematics from industry professionals can be directly detected, and a conception of firm personnel mentoring according to the needs from industry can be obtained. In addition, a cooperative system for mathematical education with other graduate schools in Kyushu University can be organized.
- Due to the presence of the Institute, the importance of mathematical research that is useful to society will be recognized in Japan, with a positive influence on high school education.
- A suitable evaluation measure for industrial mathematics can be created.



The results of basic research, specifically pure mathematics, though not in a form that can be imagined or predicted in advance, will contribute in the future to the development of many sciences, and will be useful for solving the problems of the real world. In addition, new mathematics will be born and deepening of mathematics will be brought from the applied research in mathematics that is developed to solve real world problems. This figure shows:

[Mathematical Research]

- (a) there are no limits,
- (b) gradual broadening will be seen in the "universe of the real world,"
- (c) the ordered sequence, say the pure and then followed by the applied, in the progress and deepening of mathematics is not necessarily fixed, and
- (d) fundamental research in mathematics having the present progressive form turns out to be the future industrial mathematics.

The mathematical research area viewed from such a perspective is the Mathematics for Industry.

International Institute for Carbon-Neutral Energy Research (I²CNER)

<http://i2cner.kyushu-u.ac.jp/en/>



Left: NEXT-FC, Right: I²CNER



Director, Petros Sofronis

Grand Highway for a Carbon-Neutral Energy Fueled World

Mission

I²CNER's mission is to conduct fundamental research for the advancement of low carbon emission and cost-effective energy systems, and improvement of energy efficiency. Also, I²CNER's research aims to enable a hydrogen powered society and CO₂ capture and storage, or the efficient use of energy.

Research Objectives

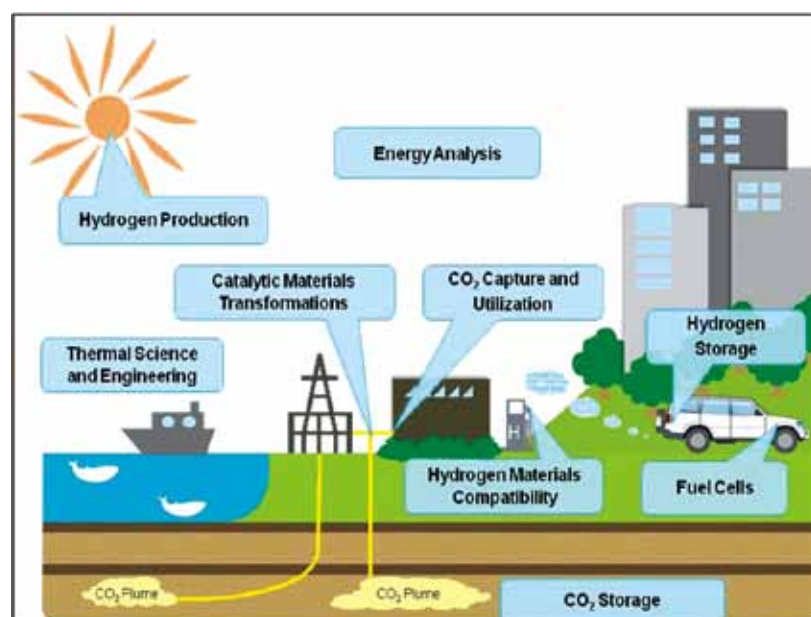
The Institute's research themes include the understanding and advancing of the science of hydrogen production and storage using artificial photosynthesis; hydrogen tolerant materials; next-generation fuel cells; catalysis and "greening" of chemical reactions; CO₂ concentration and separation; CO₂ sub-seabed and geological sequestration; and energy analysis. This broad-based agenda cuts across the boundaries of chemistry, physics, materials science, mechanics, geoscience, oceanic science, biomimetics, economics, policymaking, and educational outreach. The research in I²CNER bridges multidimensional spatial and temporal scales for various phenomena.

Features of the Institute

This is a unique collaborative project between Kyushu University and the satellite Institute at the University of Illinois at Urbana-Champaign. Kyushu University provides the Institute with the best-equipped laboratories for hydrogen research in the world, which is a truly attractive feature that encourages the international community to converge to the Ito Campus for scientific interaction and debate. The Institute structure involves thematic areas involving participants from diverse scientific disciplines and nationalities. I²CNER's strength is its young faculty who have been encouraged to develop independent research programs, and who have already started to work with our international collaborators in multi-disciplinary projects. The quality of I²CNER faculty is viewed as the most precious resource for success. The issue of transitioning into a carbon neutral energy society is global and requires leveraging resources from the international community.

Research on

- Hydrogen Production
- Hydrogen Materials Compatibility
- Fuel Cells
- Thermal Science and Engineering
- Hydrogen Storage
- Catalytic Materials Transformations
- CO₂ Capture and Utilization
- CO₂ Storage
- Energy Analysis



I²CNER's vision for the transportation sector

Kyushu University Hospital

<http://www.hosp.kyushu-u.ac.jp/index.php>



Kyushu University Hospital

Basic Principles of Kyushu University Hospital

- 1. Contribution to community medicine.*
- 2. Enforcement of primary medical care.*
- 3. Education of comprehensive medicine.*
- 4. Reinforcement of medical research.*
- 5. Promotion of internationalization.*

Kyushu University Hospital is a key hospital in western Japan that holds significant responsibility for providing advanced medical treatment to residents of the region, as well as being the center of education and research. We are proud to provide the highest level of advanced medical care, including emergency medical services, organ transplantation, and the treatment of intractable diseases that are difficult for other hospitals to manage. In education, in cooperation with other local university hospitals, we provide advanced training for medical professionals.

Kyushu University Hospital was restructured in October 2003 by integrating the three individual hospitals of Kyushu University: The Hospital of the School of Medicine, the Hospital of the School of Dentistry, and the Hospital of the Medical Institute of Bioregulation. We recently completed construction of our new hospital in Maidashi. The south wing was opened in 2002 and the north wing in 2006. With the completion of the outpatient building in 2009, all of our health care services are now integrated in a single location that provides the most advanced care possible to the citizens of western Japan.

The main objectives of Kyushu University

Hospital are to provide patients with advanced, integrated, patient-centered health care services; to contribute to the training of doctors, dentists, and other health care professionals; and to conduct hospital-based research.

There are 647 doctors, 216 dentists, 1,220 nurses, and 805 other health professionals working at the hospital. It has 51 clinics with 1,415 beds, making it one of the largest university hospitals in Japan. In 2012, the hospital handled more than 433,025 inpatients per year and averaged 2,877 outpatients per day.

We are proud of our long history of service to western Japan and look forward to continuing to provide the most advanced medical services possible.



Endoscopic robotic surgery using the da Vinci Surgical System

University Library

- *Establish Learning Library Functions in an Academic and Energetic Atmosphere*
- *Establish a Research Library which Holds a Rich Collection of Materials that have been Systematically Arranged while also Benefiting from Information Obtained from the New Network Society*
- *Manage the University Library Effectively as a Business Unit*

<https://www.lib.kyushu-u.ac.jp/en>



Ito Library (completed in 2009)

The library's mission is to create an environment where a wide range of research and education can be freely promoted. In this spirit, the Kyushu University Library has been supporting every aspect of study, education and research in the university.

Providing a Wealth of Content Accumulated over 100 Years

With over 4 million books and journals, including rare collections and important national cultural properties, and over 70,000 titles of e-journals and e-books, we support the use of academic information by providing a national top-class store of knowledge, and by improving the usage environment through various databases/reference tools, as well as related services such as intercampus delivery.

Leading the Library World by Introducing New Technologies

Recently, we have been developing a rich web-environment that includes a link resolver, off-campus access, mobile services and online research management tools, as well as building a large collection of e-journals and e-books.

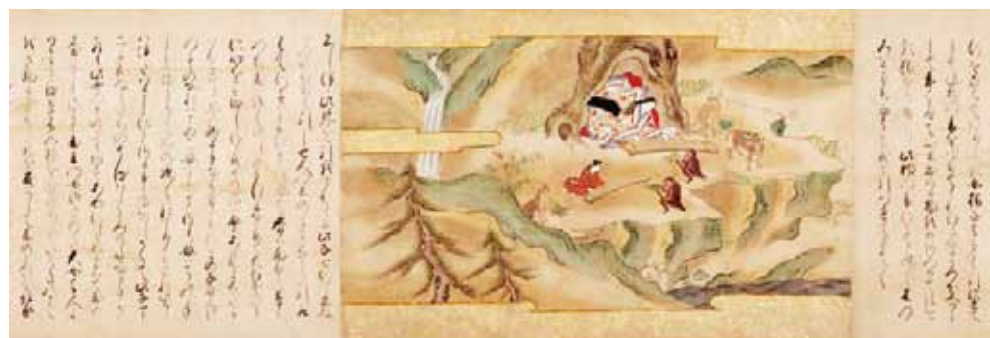
We also offer various services with the latest facilities and most advanced technologies, such as an automated storage/retrieval system and IC cards.

Transmitting Academic Information to Society

We contribute to the revitalization of society in academic, educational and industrial fields by making our research results and rare collections available to the public.

ORGANIZATION OF KYUSHU UNIVERSITY LIBRARY

- Central Library (Hakozaki Campus)
- Medical Library (Medical Campus)
- Design Library (Ohashi Campus)
- Chikushi Library (Chikushi Campus)
- Ito Library (Ito Campus)
- Humanities and Social Sciences Library (Hakozaki Campus)
- Manuscript Library (Hakozaki Campus)



Utsuho Monogatari (in "Hosokawa Collection" owned by Kyushu University Library)

Information Infrastructure Initiative

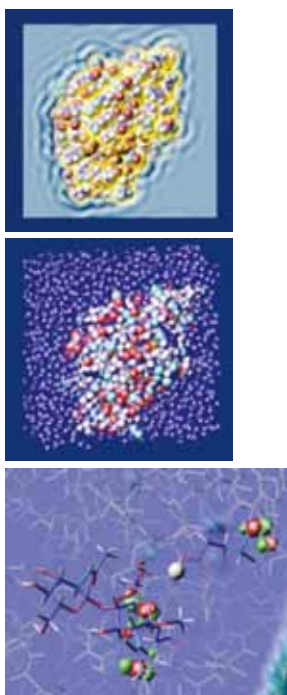
<http://iii.kyushu-u.ac.jp/en/>



Inter-Campus Learning Assistant System "iClass"

Research on

- Text Mining in Academic Area
- Cloud Computing
- Language Education
- Materials e-Learning Design
- Teleclass Systems
- Next Generation Networks
- Multi-Scale or Multi-Physics
- Computational Science
- Large Scale Simulations



Coupled Simulation of Solute-Solvent Interactions of Lysozyme

Research Center Providing IT Services to University Members, External Users and Partners

The Information Infrastructure Initiative is an organization that provides IT services both inside and outside Kyushu University.

The Information Infrastructure Initiative is composed of the Research Division (Research Institute of Information Technology), the Technical Support Division, and the Administration Division.

The Research division and the Technical Support Division are working together to provide top level IT infrastructures that are safe and convenient for users.

The list on the right shows services which we offer to users. Professors, students, and research staff of Kyushu University can use most of these services by default (additional registration is required to use the high performance computer environment and some special resources). Potential partners all over Japan and users who need additional services can contact our staff for more details.

<http://iii.kyushu-u.ac.jp/en/general/contacts>

Services

- University Mail Services
- Campus-Wide Software Licenses
- Educational Computing Environment
- High Performance Computing Environment
- WiFi and Backbone Networks
- Common ID Authentication
- Hosting Services
- Campus Cloud Service
- Support for Information Security

Infrastructure

The Information Infrastructure Initiative manages the following resources that enable providing our services.

- Supercomputer
- High-Performance Computing Server
- Various network infrastructure
- Educational PCs
- Other Servers



Fujitsu PRIMEHPC FX10

Institutes for the Joint Use of Kyushu University

BIOTRON APPLICATION CENTER

This Center was established in April 2011 by the reorganization of Biotron Institute. The missions of this center are to support application research from the findings of basic biological sciences and provide the environmentally regulated laboratory spaces to the researchers in Kyushu University. The center is consisted with 15 academic staff including 2 full-time scientists and 13 concurrent researchers from several faculties in the university.



THE INTERNATIONAL STUDENT CENTER

INSTITUTE OF TROPICAL AGRICULTURE

The Institute was established in 1975 to promote research and networks for agriculture and related fields in the tropics. It consists of two sections with a total of 5 staff members—the Crop Production Section and the Land-Water Resources & Environment Conservation Section. The Institute has been implementing joint studies overseas, as well as international development projects, by planning and coordinating the programs. For more details, please visit the following website:
<http://bbs1.agr.kyushu-u.ac.jp/tropic/>



THE KYUSHU UNIVERSITY MUSEUM

RADIOISOTOPE CENTER

The Center was established in 1980 by combining four existing radioisotope facilities. It consists of three divisions: Radiation Safety Management, Radiological Science Research, and Radiation Monitoring and Information. The Center provides experimental facilities and the latest radiation measurement instruments for users in all fields of radioisotope sciences. The Center also provides information and instructions on the safe handling of radioisotopes as well as a fundamental training course for less experienced researchers.

CENTER OF ADVANCED INSTRUMENTAL ANALYSIS

The center was established in 1982 to facilitate advanced instrumental analysis and high grade specimen preparation for research and education. At present, the center manages 21 instruments at the Chikushi Campus and 24



CENTER OF ADVANCED INSTRUMENTAL ANALYSIS

instruments at the Ito Campus. Use of the instruments is available to all members of Kyushu University. Recently, these activities are being developed for industry as well. Details are provided on the web at the following URL: <http://www.bunseki.cstm.kyushu-u.ac.jp/>

THE INTERNATIONAL STUDENT CENTER

This Center was established in 1985 to provide Japanese language training for international students, advising and counseling for them adapt to life in Fukuoka. Now with about 2,100 overseas students at the university, it offers a growing range of educational programs and support services. Japanese language courses have developed to include all levels from beginners to advanced learners. There are also Japanese and Asian Studies programs in both English and Japanese, which run for two weeks, seven weeks, one semester and a full year (AsTW, ATW, JLCC, JTW, etc.). Please see our web-site for more details.

http://www.isc.kyushu-u.ac.jp/center/home_new.htm

THE KYUSHU UNIVERSITY MUSEUM

The Kyushu University Museum was established in 2000 in order to standardize the maintenance and management of individual collections of specimens and archives that have been scattered among numerous laboratories. This standardization will allow these collections to be recorded in a database, which will aid research and education both inside and outside the university. The museum consists of three laboratories: Laboratory of Curatorial Sciences, Laboratory of Analytical Sciences, and Laboratory of Information and Multimedia Sciences.

SYSTEM LSI RESEARCH CENTER

System LSI Research Center (SLRC) was established in 2001 to be a COE of System LSI design technologies. SLRC has played an important role in Silicon Sea Belt Fukuoka project through research activities of the Innovative Cluster Creation Project and education in System LSI College. SLRC is also promoting the IC card

project in Kyushu University. A satellite campus was opened in Momochihama and Itoshima in 2004 and 2011, respectively, where many LSI design industries are located.



INTERNATIONAL CENTER FOR SPACE WEATHER SCIENCE AND EDUCATION (ICSWSE)

INTERNATIONAL CENTER FOR SPACE WEATHER SCIENCE AND EDUCATION (ICSWSE)

ICSWSE (formerly SERC) was established in 2002 to conduct fundamental studies of space weather. ICSWSE's primary mission is to collect data on the earth's magnetic field by using MAGDAS. The MAGDAS project now consists of 72 real time magnetometers all over the world. In this way, ICSWSE provides Japan's most important contribution to IHY/ISWI (International Heliophysical Year/ International Space Weather Initiative) of the UN. In addition, in 2006, ICSWSE was instrumental in the creation of ULTIMA, which is an international consortium of magnetometer arrays. More information on ICSWSE, IHY, ISWI and ULTIMA can be found at www.icswse.kyushu-u.ac.jp.

RESEARCH CENTER FOR KOREAN STUDIES

To further promote Korean Studies at Kyushu University and cultural exchange between Korea and Japan, this Center (RCKS), was established in 1999, by the Ministry of Education, Culture, Sports, Science and Technology. In addition to the various fields of research, recently RCKS has been organizing "The Strait College Program: bridging Japan and Korea" with Pusan National University (PNU).

RESEARCH CENTER FOR EDUCATION IN HEALTH CARE SYSTEM

This Center was established in 2003 to improve and enhance a multidisciplinary education of the health care system based on medicine, dentistry, pharmaceuticals, and health sciences. The key functions are to research education in this area and to support planning and implementation of multidisciplinary curricula in the Faculties of Medicine, Dentistry and Pharmaceuticals.

RESEARCH INSTITUTE OF SUPERCONDUCTOR SCIENCE AND SYSTEMS

The Research Institute of Superconductor

Science and Systems (RISS) was initiated in 2003 as the joint-use research center for basic science and the near-future application of superconductors. Research and education in RISS cover basic phenomena and new concepts in superconductors, improvements in electromagnetic properties of superconducting wires and films, and applications to superconductive devices and systems in cooperation with several Graduate Schools and Faculties in Kyushu University.

KANSEI DESIGN CENTER

Originally established in October 2003, when Kyushu University and the Kyushu Institute of Design were unified, the Kansei Design Center for Arts and Science functions as a base for cooperative research and education, drawing on the academic activities of the two universities. Its goal is the creation of technology with innovative values that combine artistic sensitivity and contemporary science.

After completion of the super-COE program (Institution for User-Based Integration of Technology-Sensitivity) and ADCDU (The Advanced Digital Content Design Unit, as a doctoral and master's program for the graduate school for the Emerging Field Human Resource Development Project by MEXT), the newly modified center was re-established in April 2009 as the Kansei Design Center.

The new center consists of two departments; the Department of Content Creation Science and the Department of User Science.

ART, SCIENCE AND TECHNOLOGY CENTER FOR COOPERATIVE RESEARCH

Established in 1994, the Center is dedicated to various types of collaborative research among industry, government and academia. The Liaison Division promotes collaboration, technology transfers, and licensing between the university and industry. The Design Division functions as a core base for cooperative research in art and technology. The function of the Project Division is to promote joint research by coordinating activities between diverse advanced projects. The Collaborative Research Division consists of industry-funded research teams.



ART, SCIENCE AND TECHNOLOGY CENTER FOR COOPERATIVE RESEARCH



RESEARCH INSTITUTE OF SUPERCONDUCTOR SCIENCE AND SYSTEMS



ROBERT T. HUANG
ENTREPRENEURSHIP CENTER(QREC)

RESEARCH LABORATORY FOR HIGH VOLTAGE ELECTRON MICROSCOPY

This Laboratory was established in 1975 to support research at Kyushu University. Principal equipment includes a JEM-1300NEF energy filtering high voltage electron microscope with a maximum accelerating voltage of 1,300 kV, a JEM-ARM200F aberration-corrected STEM/TEM, a JEM-3200FSK 3D energy filtering electron microscope, a FEI TECNAI F20 Lorentz electron microscope, and a JEM-2010FEF nano-probe energy filtering electron microscope. In addition, various other types of equipment, a Zeiss Ultra 55 FE-SEM with micro-calorimeter EDS and a FEI Quanta 200 3Di Dual-beam Focused Ion Beam have been introduced to facilitate the laboratory's objectives.

CENTER OF ENVIRONMENT AND SAFETY

Environmental management and safety measures are essential to social responsibility at any university. The duties of the Center include waste disposal treatment, quality analysis of environmental water and drainage properties, and the risk management of chemical substances, as well as editing and publishing the Environmental Report of Kyushu University. The Center also works to remove harmful components from the wastewater produced by the wide variety of experimental activities at all faculties.

URL: <http://kan-an.jimu.kyushu-u.ac.jp/>

NATURAL DISASTER INFORMATION CENTER OF WESTERN JAPAN

This Center is the natural disaster information center in the western part of Japan. The main aim of the Center is to collect reports and information about natural disasters, and make them available to engineers and scientists in the field of natural disasters. Another aim of the Center is to lead research activities on the science and prevention of natural disasters in the western part of Japan.

KYUSHU UNIVERSITY ARCHIVES

Established in 1992 and reorganized in 2005, the Kyushu University Archives house a wide selection of documents relating to Kyushu University. The archives actively collect, examine and preserve all kinds of documents dealing with the university. The collection is open to visiting

scholars and to the general public.

ROBERT T. HUANG ENTREPRENEURSHIP CENTER (QREC)

QREC provides students at Kyushu University with a cutting-edge entrepreneurship education to produce future leaders with a sense of independence, ambition, a global point of view, and a willingness to actively create new values by not only starting venture companies but also creating new values in a large company, in the academia, and in every field in society. QREC also serves as a hub for nurturing entrepreneurs in the Asian region.

ADMISSION CENTER

The Admission Center (AC) was established in April 1999 as one of the first three research centers for admissions at national universities. The aim of the Center is to develop a new student selection program called "the admissions office style student selection (AO selection)." Kyushu University started this new AO selection program in 2000 for admissions to three schools, and in 2014 for admissions to six schools and the 21st Century Program.

INTERNATIONAL RESEARCH CENTER FOR HYDROGEN ENERGY

The Hydrogen Technology Research Center was established in August 2009 as the head quarter of unique activity of Kyushu University Hydrogen Project.

This center, now called "International Research Center for Hydrogen Energy", consists of 6 divisions including hydrogen production, hydrogen storage, hydrogen utilization, safety management, hydrogen systems, and sociology for hydrogen energy. The aim of this center is to establish hydrogen-related science and technology.

Research, development, and demonstration of materials and systems for hydrogen energy are the major research activities, including fuel cells, hydrolysis, hydrogen storage and supply, hydrogen sensing and safety.

Human resource development for hydrogen-related technologies is also one of the important aims of this research center.

This Center is tightly collaborating with Next-Generation Fuel Cell Research Center for fuel cell related research. This Center is also



INTERNATIONAL RESEARCH
CENTER FOR HYDROGEN ENERGY

cooperating with the Research Center for Hydrogen Industrial Use and Storage, focusing on fundamental materials science and technology in high-pressure hydrogen systems.

CENTER FOR FUTURE CHEMISTRY

The purpose of the center is to develop novel materials, sciences, and technologies for future chemistry. The center consists of five divisions: Green Chemistry, Environmental & Energy Chemistry, Optoelectronics & Photonics, Optical & Functional Materials, and Biotechnology. The research activities in this center mainly include information, photoactive, nanotechnology, biological, environmental, energy related chemistry, and translational research of the developed materials and nanotechnologies for industry.



CENTER FOR ACCELERATOR AND BEAM APPLIED SCIENCE

BIO-ARCHITECTURE CENTER

The Bio-Architecture Center was established in 2005 to create a strategic research foothold based on OMIC technologies. Since 2010, all the members of the center have joined the Graduate School of Bioresource and Bioenvironmental Sciences as well as Faculty of Agriculture. Our mission is to contribute to the establishment of innovative biotechnologies for research and education. The center also seeks productive cooperation with industry and academia.



INAMORI FRONTIER RESEARCH CENTER

RESEARCH CENTER FOR STEEL

The Research Center for Steel was established in April, 2005 to develop research related to the production of steel and the evaluation of its properties. In addition, the center seeks to train excellent researchers and engineers who will be engaged in steel making companies, public research centers and universities in future. The management of this center features the collaboration between steel related companies and Kyushu University with respect to both education and research activity.

LOW TEMPERATURE CENTER

The Low Temperature Center was established in April 2006 to supply liquid nitrogen and liquid helium for research and education of low temperature science. The center provides seminars in cryogenic education for researchers, technical staff and students in Kyushu University.

It consists of two sub-centers: Hakozaki Center and Ito Center, the latter of which has started

work in 2007. The center has supplied over 30,000 liters of liquid helium and 200,000 liters of liquid nitrogen in every year, and cultivates a good relationship with the local communities by opening the facilities and introducing low temperature worlds to the public.

CENTER FOR ACCELERATOR AND BEAM APPLIED SCIENCE

This center was established in 2007, aiming at supplying accelerated ion beams and gamma-rays for research in various fields, including nuclear, material, biological and medical sciences and technologies. The center consists of the FFAG (Fixed Field Alternating Gradient) accelerator facility, the gamma-ray irradiation facility, and the Hakozaki Branch, where a tandem accelerator is operated by the Faculty of Sciences. Beam commissioning of the FFAG for 120 MeV proton acceleration and construction of an injector tandem accelerator are in progress.

INAMORI FRONTIER RESEARCH CENTER

INAMORI Frontier Research Center (IFRC) was established in 2008 by the strong support from the Inamori Foundation and Kyocera Corporation. The IFRC focuses its research on science and advanced technologies for future comfortable and sustainable society. Current research activity of the IFRC is particularly emphasized on

- (A) Environmental science and technology
- (B) Energy science and technology
- (C) Science and technology for soft materials
- (D) Electronic materials and devices

The IFRC is to act as a center for "pioneering and leading new era of knowledge". Young excellences in the center are conducting researches for our bright future society.

RESEARCH AND EDUCATION CENTER OF CARBON RESOURCES

This institute was established to create an international Center of Excellence for more sustainable utilization of coal, oil, and other fossil fuel resources. While carbon resources are of crucial importance for society, the world is facing significant problems due to the exhaustion of supplies and the pollution resulting from their use. Top-level research and education through international cooperation on the utilization of carbon resources, with concomitant protection of



KYUSHU UNIVERSITY BEAMLINE (SAGA-LS/BL06), RESEARCH CENTER FOR SYNCHROTRON LIGHT APPLICATIONS

the global environment, constitute the mission of this institute.

RESEARCH CENTER FOR SYNCHROTRON LIGHT APPLICATIONS

The Center was founded in 2009 with the installation of the Kyushu University Beamline (KUBL) facility in Kyushu Synchrotron Light Research Center (SAGA-LS). The KUBL is a hard X-ray beamline designed for the analysis of local structures of materials by using X-ray absorption and X-ray small-angle scattering techniques. The Center seeks to promote science and technology for synchrotron light applications, to develop functional materials, to facilitate cooperative research, and to train top researchers through research and education activities with KUBL.

INCUBATION CENTER FOR ADVANCED MEDICAL SCIENCE (ICAMS)

This center was founded in 2009 to promote collaborative advanced research between the Innovation Center for Medical Redox Navigation and various faculties, research centers, and departments of Kyushu University for the further development of the medical and pharmaceutical industries. ICAMS also provides opportunities to improve the performance of collaborative industry-university research projects.

RESEARCH CENTER FOR PLASMA TURBULENCE

Established on October 1, 2009 and directed by Professor S. -I. Itoh, the Center seeks to form an international research core devoted to developing methods of controlling dynamics of the burning plasma and clarifying plasma for nonlinear physics, including turbulent transport and structure formation, by systematizing the studies of plasma turbulence, by employing e-Science, and by integrating the research of extremely nonequilibrium systems. Another area of emphasis is international bidirectional education and making Kyushu University visible as an international career path.

MATERIAL MANAGEMENT CENTER

The Center was established in April 2010 to promote and plan research and obtain funds for Kyushu University's collection of materials.* The

responsibilities of the Center include the management of this collection and its distribution to other research centers in accordance with the Material Transfer Agreement, as well as the management of transfers of materials from other institutes via the Center's website.

The Center additionally studies the systems and rules that apply to material transfers, based on both international treaties and domestic laws, e.g. Convention on Biological Diversity and Foreign Exchange and Foreign Trade Act.

* Materials include genes, proteins, microbes, cells, knockout animals and plants, seeds and other research tools.

CENTER FOR MOLECULAR SYSTEMS (CMS)

This research center was founded in April 2010, on the basis of the successful achievements of the MEXT Global COE program of "Science for Future Molecular Systems" (FY 2007-2011). The center has reorganized for continuation in 2012.

The goal of the Center is to create a distinguished international research hub for "Molecular Systems Chemistry" that presses forward with front-line research related to the design and development of advanced molecular systems.

CENTER FOR JAPAN-EGYPT COOPERATION IN SCIENCE AND TECHNOLOGY (E-JUST CENTER)

The Center was established in August 2010, and its primary objective is to aggressively promote the E-JUST (Egypt-Japan University of Science and Technology) project and to establish intra-disciplinary collaborations with the department of Electronics and Communication engineering (ECE) as its Japanese counterpart. The Center supports a unique model of international cooperation in higher education, and seeks to establish an ecosystem in Egypt and the African region to train local students and young researchers at E-JUST, as well as to establish a sustainable method of international exchange for future leaders in science and technology in the region and in Japan.

CENTER OF PLASMA NANO-INTERFACE ENGINEERING

The Center was established in 2010 to conduct

innovative research, collaboration with researchers in industry, and worldwide networks for plasma engineering. It consists of four sections: 1) Fundamental Plasma Engineering, 2) Plasma Electronics, 3) Plasma Environmental Engineering, and 4) Plasma Bio-Engineering.



CENTER FOR ADVANCED MEDICAL INNOVATION (CAMI)

CENTER FOR ADVANCED MEDICAL INNOVATION (CAMI)

The mission of the Center is to establish a robust and united organization that covers everything from basic biotechnological research to clinical field trials of advanced medicine and innovative technologies, based on the cooperation of industry, government and academia. We work on an open and cooperative basis, and welcome the participation of domestic as well as international companies that are leaders in their fields. We are also developing the talents of individuals in each area of advanced medicine and innovative technology to provide a valuable human resource pool.

EU CENTRE (EUIJ-KYUSHU)

The EU Centre was established in December 2010 to provide a hub for EU studies at Kyushu University, and as a management organization for EUIJ-Kyushu (the European Union Institute in Japan - Kyushu). EUIJ-Kyushu is an academic institution affiliated with the European Union. Kyushu University, Seinan Gakuin University and Fukuoka Women's University constitute the EUIJ-Kyushu consortium, which provides a focal point for all EU related activities in the Kyushu region. The Kyushu University EU Centre will take a central role in coordinating the consortium and managing all the activities of EUIJ-Kyushu.



EU CENTRE (EUIJ-KYUSHU)

RESEARCH CENTER FOR ADVANCED IMMUNOLOGY

This center was established in December 2010 to promote advanced research leading to the development of novel strategies to control immune-related disorders, and comprises four basic research branches and one clinical research branch. The main purpose of the basic research branches is to elucidate the mechanisms that regulate migration and activation of leukocytes, and to reveal the molecular basis of immunological memory. The clinical research branch contributes to translational research, using products derived from both inside and outside the center.

RESEARCH CENTER FOR ENVIRONMENT AND DEVELOPMENTAL MEDICAL SCIENCES

This research center was established in 2011 to support scientists in Environment and Medical science. The center consists of two departments: Japan Environment and Children's Study (JECS) (known as EcoChil Study) conducting investigation and basic science research. The former department recruits 5,400 pregnant women from Higashi-ku, Fukuoka city and investigates the health and development of their delivered infants for 13 years. Additionally, blood samples of parents and infants are kept. Various chemicals included in the blood are analyzed and their association with health and developmental problems of infants is evaluated in the basic science research department. The program is essential for new environmental regulations in the future for Fukuoka city. For more details, please visit the following website; <http://edms.kyushu-u.ac.jp/index.html>

RESEARCH CENTER FOR CANCER STEM CELL

This center was established in 2011 to facilitate translational research for the development of novel treatment strategies targeting cancer stem cell (CSC). It is equipped with the most advanced machinery for isolation and characterization of CSCs and their niche components including an 8-color fluorescence-activated cell sorting system and a high-throughput small-scale gene expression profiling system. The next-generation xenotransplant model to evaluate CSC activity in vivo is also established. Our goal is to find seeds of novel anti-cancer therapies for various tumors and to evaluate their efficacy.

RISK SCIENCE RESEARCH CENTER

The impact of environmental risks that originate from chemicals, radiation, infectious diseases, and wide-area atmospheric pollution influences greatly on the health of humans and their lifestyle. This requires risk management solutions. Aspects of KU-RSRC, Kyushu University Risk Science Research Center, will involve the development of risk research, risk assessment, risk communication, and risk management. KU-RSRC will also put a great emphasis on signal toxicities of bisphenol A and many other new-generation bisphenols.



RESEARCH CENTER FOR NUCLEOTIDE POOL

RESEARCH CENTER FOR NUCLEOTIDE POOL

This center was established in April 2011 to promote cutting-edge science unveiling molecular pathology and regulatory mechanisms involved in the breakdown of nucleotide pool homeostasis under environmental stress. The center comprises of four branches studying: (1) Regulatory mechanisms for nucleotide pool homeostasis, (2) Regulation of signal transduction by modified nucleotides, (3) Molecular pathology in the breakdown of nucleotide pool homeostasis, (4) Control of failure of the nucleotide pool homeostasis.



YUNUS & SHIKI SOCIAL BUSINESS RESEARCH CENTER (SBRC)

EPIGENOME NETWORK RESEARCH CENTER

This Center was established in April 2011 to promote research on the epigenomic regulatory networks of cells from humans and model animals in normal development, maintenance of homeostasis, defense against pathogens, and disease processes by using cutting-edge technologies. Our aim is to use the outcome of these studies for understanding of disease processes and development of new diagnostics and therapeutics.

CENTER FOR ASIAN CONSERVATION ECOLOGY

This center aims at observing and assessing biodiversity changes at the level of genes, species and ecosystem in Asia as a basis of biodiversity conservation under the collaboration with scientists of Asian countries. We also contribute to build relationships with Asian countries through graduate programs and collaborative projects.

HUMAN PROTEOME RESEARCH CENTER

Human Proteome Research Center (HPRC) was established in June 2011 as a core unit towards the Human Proteome Project. HPRC has 16 mass spectrometries and is currently one of the largest facilities for proteome research in Japan. The aims of this center are to develop advanced technologies for proteome research and to challenge a number of unsolved biological problems by measuring comprehensive sets of proteins by means of absolute quantification.

CENTER FOR ADVANCED RESEARCH IN DRUG CREATION (CARDC)

The center was established in 2011 to promote advanced research for drug discovery and development against intractable diseases, resulting in creating new drug candidates which are original and difficult to develop by drug companies. It consists of 10 divisions that express high activities for the mechanism of diseases using animal models, developing screening systems, exploring seeds for drugs, chemical modification of seeds, pharmacokinetics, and drug delivery systems.

YUNUS & SHIKI SOCIAL BUSINESS RESEARCH CENTER (SBRC)

SBRC was established in October 2011, after 4 years of Social Business Promotion through the Grameen Creative Lab @Kyushu University.

SBRC's mission is to conduct research of all types of Social Business around the world but especially focus on the Promotion and Incubation of Social Business, the idea proposed by Prof. Muhammad Yunus, 2006 Peace Nobel Prize Laureate.

RESEARCH CENTER FOR ADVANCED BIOMECHANICS

The Research Center was established in November 2011 to promote various biomechanical research with clinical applications. The Center is composed of divisions of Biomedical devices, Biomechanics, Advanced Biomaterials, Clinical Biomechanics and International Cooperation. One of the research activities is JSPS Grant-in-Aid for Specially Promoted Research: The elucidation of adaptive lubrication mechanism with low friction and minimum wear in natural synovial joints and the development of artificial hydrogel cartilage with super lubricity based on a bionic design.

NEXT-GENERATION FUEL CELL RESEARCH CENTER (NEXT-FC)

Solid Oxide Fuel Cell (SOFC) is the most efficient among all types of fuel cells for clean and highly efficient energy conversion and is attracting attention as a revolutionary solution for energy problems and global warming.

Despite this, there are various challenges that need to be overcome before we can realize wide-range commercialization of SOFC and other next-generation fuel cells.

Challenges will require improvements in durability, reliability, and performance.

This center has been established to accelerate research activities as a joint industry-academia research hub for the development and early commercialization of next-generation fuel cells.

This will be done in close cooperation between Kyushu University, which is intensively engaged in fuel cell research, and various companies developing fuel cells.

SYNTHETIC SYSTEMS BIOLOGY RESEARCH CENTER

This research center was established in January 2012, which is composed of the following three sections; 1) Design of Synthetic Metabolic Pathway 2) Mathematical System Analysis 3) Design of Bio-inspired System. Integrated research strategies of systems biology and synthetic biology, the mission of this research center is to make a paradigm shift from the concept of “watched and analyzed biology” (conventional biology) to that of “synthetic and analyzed or utilized biology” (innovative new biology).



1st Symposium on STI Policy

CENTER FOR SCIENCE, TECHNOLOGY AND INNOVATION POLICY STUDIES (CSTIPS)

CSTIPS was established in April 2012 as a hub institution adopted by the funding program of MEXT to foster policy makers and researchers for ‘Science of Science, Technology and Innovation Policy’. The main purpose of CSTIPS is the development of education program on ‘Science for Policy’ with focus on the studies of innovation system in East Asia and regional systems of innovation in Japan.

CENTER FOR INTELLECTUAL PROPERTY AND PRIVATE INTERNATIONAL LAW

This center was created in 2011 in order to deal with various issues on IP and Private International Law. This emerging field covers not only international private enforcement of IP as a core topic, but also new issues such as international arbitration and IP, IP and corporate finance, and liability of intermediaries. The Center works closely together with the International Law Association in London and Max-Planck Institute for Comparative and International Private Law in Hamburg.



EDUCATION CENTER FOR GLOBAL LEADERS IN MOLECULAR SYSTEMS FOR DEVICES

RESEARCH CENTER FOR ADVANCED PARTICLE PHYSICS

The Research Center for Advanced Particle Physics (RCAPP) has three divisions. Terascale Experimental Physics Division is a team for the ATLAS experiment at the LHC, which is responsible for the semiconductor tracker and physics analysis. The Future Accelerator Experiment Division works for the study of physics and detector at the future International Linear Collider (ILC) as well as its promotion. Terascale Theoretical Physics Division studies theoretical particle physics in collaboration with the two experimental divisions.

FOOD FUNCTIONAL DESIGN RESEARCH CENTER

This Center was established in October 2012 to promote research and networks for functional food factors and related fields in the food science. It consists of five divisions with 11 concurrent academic researchers from the Faculty of Agriculture in the University and 12 advisory board members from outside the University. Our mission is to contribute to the establishment of fundamental methodologies for development of functional foods. The Center also seeks productive cooperation with industry and academia.

GREEN ASIA EDUCATION CENTER

The center was established in December 2012 to promote “Advanced Graduate program in Global Strategy for Green Asia” selected as a MEXT program for Leading Graduate Schools. This advanced graduate course, formed in the Graduate School of Engineering and the Interdisciplinary Graduate School of Engineering Sciences, aims at the development of leadership in the fields of science and engineering to realize ‘Green Asia’ symbolizing the desirable future of Asia where greening (saving energy and resources) and economic growth are being kept on simultaneously.

EDUCATION CENTER FOR GLOBAL LEADERS IN MOLECULAR SYSTEMS FOR DEVICES

This center was established in 2013 to provide a state-of-the-art education and research facility for cultivating global super leaders equipped with management leadership abilities and preeminent research skills. With the cooperation

of Industry, Academia and Government, the education center aims to implement the Program for Leading Graduate Schools, Kyushu University Advanced Graduate Program on Molecular Systems for Devices, under the best learning circumstance.

ADVANCED RESEARCH CENTER FOR ELECTRIC ENERGY DEVICE (ACE²)

New and advanced electric energy storage devices are strongly requested from various fields such as electric vehicle and averaging renewable energy. This center is established for developing new generation electric energy storage devices which have a much larger capacity and are safer than the current Li ion battery. In this center, new concepts for storage devices like advanced metal-air battery, new generation Li ion and dual carbon battery are developed. Storage mechanism and new analytical method are also studied.

INNOVATIVE MARKET DESIGN RESEARCH CENTER

This center was established in 2012 to promote innovative research on market design. Market design is a research field that aims to design/modify real economic markets that allocate precious resources in a socially desirable way. Such markets include real complicated markets (e.g., spectrum auctions) and markets that do not involve monetary transfers (e.g., school choice programs). This center systematically conducts basic and applied research on market design from a computational/algorithmic perspective.

RESEARCH CENTER FOR ORGANELLE HOMEOSTASIS

This research center is established in March 2013, on the basis of the successful achievements of the MEXT programs, termed 21st century COE, Global COE, and Grants for Excellent Graduate Schools Programs. The aim of this research center is to elucidate the mechanisms underlying how cellular functions are regulated by orchestrating the functions of organelles in response to the extracellular stimuli and/or intracellular signals. The center consists of about ten groups studying the organelle homeostasis in mammals, plants, and yeast. URL : <http://cellfate-gcoe.jp/>

RESEARCH CENTER FOR HYDROGEN INDUSTRIAL USE AND STORAGE (HYDROGENIUS)

This was formerly a center of the National Institute of Advanced Industrial Science and Technology established at the Ito Campus in July 2006, and was succeeded by Kyushu University in April 2013. It has five divisions: fatigue and fracture, polymers, tribology, thermophysical properties, and safety. It aims to establish fundamentals of properties of materials in hydrogen and properties of hydrogen at ultra-high pressure, and to contribute to improving reliability, safety and economic efficiency of hydrogen energy systems through collaboration with industries.

TRANSDERMAL DRUG DELIVERY SYSTEM (TDDS) CENTER

This center was established in April 2013 to promote cutting-edge technology of transdermal drug delivery system, which is based on nanodispersion technology of drugs in an oil phase. The mission of this center is to create a novel transdermal vaccine system for cancer or pollen therapy. The center has succeeded in commercialization of cosmetics "VIVCO" based on the TDDS technology this year.

ADVANCED ASIAN ARCHAEOLOGICAL RESEARCH CENTER

Advanced Asian Archaeological Research Center was newly launched in 2013 for multidisciplinary research on archaeological material using archaeological, anthropological, medical and geological analytical methods. The center comprises three sections: (1) section of development of survey methods, (2) section of precise instrumental analysis and (3) section of historical information analysis. On the basis of the integration of these studies, the center is moving forward to be the international research hub for archaeology in East Asia.

RESEARCH AND EDUCATION CENTER FOR ADVANCED ENERGY MATERIALS, DEVICES, AND SYSTEMS

This center was established in 2013 to promote research and development of energy efficiency technologies. Our emphasis is on a comprehensive and versatile energy approach



ADVANCED ASIAN ARCHAEOLOGICAL RESEARCH CENTER



RESEARCH AND DEVELOPMENT CENTER FOR TASTE AND ODOR SENSING

that encompasses the relationship among key technologies as follows:

- 1) photovoltaics and thermoelectrics as direct energy conversion for power generation and energy recuperation
- 2) storage and delivery of electricity and heat energy
- 3) energy-saving technology in modern architecture
- 4) renewable energy such as solar and wind power

Interdisciplinarily collaborative researches aiming at innovations in fundamental energy infrastructure play a crucial role on our education program to address the energy and environmental goals in our society.

COUNSELING AND HEALTH CENTER

We provide counseling, health care and health promotion programs/packages for all students and employees as described below;

- *Student counseling and guidance
- *Services for students with disabilities and mental disorders
- *Medical treatment for sickness and injury
- *Health-related consultations

Consultation and treatment at annexes are completely free of charge and provided under the privacy policy.

We also organize an annual medical check-up for all university students, based on the School Health and Safety Act.



3D/4D STRUCTURAL MATERIALS RESEARCH CENTER

RESEARCH CENTER FOR ARCHITECTURE-ORIENTED FORMAL METHODS

This research center was established on 1st May 2013 to propose and utilize formal approaches to develop high-quality software systems efficiently. Under the collaboration between industry and academia, we propose practically effective formal approaches to model, analyze, verify, operate, and maintain complicated IT systems. We accumulate case studies of applying formal methods into conventional software development processes, and develop tools which embody our approaches and support developers and users to

realize high quality and dependable IT systems.

RESEARCH AND DEVELOPMENT CENTER FOR TASTE AND ODOR SENSING

This Center was established in 2013 to handle several kinds of demands of society based on a taste sensor and electronic noses, which have been mainly developed by Kyushu University. It consists of three divisions to perform research of basic science, development of sensors and their implementation. It will produce food scores, which express the quality and palatability of foods, and sensing devices to detect explosives with high sensitivity by also conducting biochemical research.

INSTITUTE OF DECISION SCIENCE FOR A SUSTAINABLE SOCIETY

This Institute aims to train graduate students to global leaders who can lead our decisions toward a sustainable society by integrating disciplinary and interdisciplinary sciences on environments, disaster, health, governance and human cooperation, and developing a new transdisciplinary science for better decision makings. Under the program of this institute, graduate students will be trained in some solution-oriented projects not only in Japan but also in Bangladesh, Cambodia, Kenya and other countries.

3D/4D STRUCTURAL MATERIALS RESEARCH CENTER

A new technology for materials development, Reverse 4D Materials Engineering (R4ME) is achieved through the utilization of advanced imaging techniques. RFME is a reverse chronological process that enables rapid development of high-performance materials. Microstructures are virtually optimized by means of an image-based simulation in which multi-scale 3D structures of existing materials are accurately reproduced. To render RFME a practical technique for microstructural control, the representation of a given complex 3D microstructure is coarsened to make it suitable to conventional materials design techniques.

**Research Institute
For East Asia
Environments**



<http://www.q-eaep.kyushu-u.ac.jp/en/>



Research in arid area in China

Research on

- Urban Environment
- Low-carbon Society
- Food Risk & Assessment
- Water Environment
- Combating Desertification
- Agro-Production Environment
- Atmospheric Environment
- Marine Environment
- Environment Chemistry
- Environmental Planning & Management

An international Project Base that Aims to Solve Environmental Issues and Create the Future Environment in the East Asian Region

The Research Institute for East Asia Environments (RIEAE) was organized in April 2009, based on the East Asian Environmental Problems Project, overseen by Kyushu University in 2007, as one of the projects conducted to mark the 100th anniversary of the university.

The mission of RIEAE is to integrate the knowledge and technology of Kyushu University for the development of environmental specialists and the creation of a sustainable environment through research activities. This mission intends to thereby produce practical solutions to environmental problems, which become worse in the East Asian region.

As listed in the left-hand column, our research groups are divided into 10 groups, comprising approximately 60 researchers from nine graduate faculties and three research institutes at the university. The research activities by the groups range from the cities to rural areas, ocean to the atmosphere, nano-scale technology to the global scale circulation simulation models of the atmosphere and the ocean. We tackle the environmental problems not as the

problems in other countries, but as our problems in East Asia, inspired by the history and geographical nature of Kyushu Island where the culture, economy and the environment have been strongly influenced by other Asian countries.

RIEAE is also taking an initiative in establishing a training program named East Asia Environmental Strategist Training Program (EAESTP) consisting of systematic curricula, practical seminars, and research guidance with environmental issues in collaboration with partnering East Asian universities, international research institutes, and companies. This program provides students enrolled in master's and doctoral programs with the opportunity to participate in RIEAE-led international research projects and work for an international agency as an intern, in addition to providing exposure to a wide range of knowledge that covers both natural science and social science. Our graduates are now actively working in environmental researches both inside and outside Japan.



Sustainable Design Camp in Nepal

Innovation Center For Medical Redox Navigation

<http://redoxnavi.kyushu-u.ac.jp/english/>

Redox

Research on

- Biological redox analysis and imaging system (ReMI)
- Analysis of metabolic changes
- Mechanisms of redox-related diseases
- Early diagnosis, medical treatment and development of medicines for redox-diseases
- ICT Network

ICMRN Initiates Imaging and Analysis of Redox-related Diseases, an Early Diagnosis, Medical Treatment, Drug Discovery, and Medical ICT Network

Living organisms survive by synthetic processes of protein and lipid, etc., and the generation of energy.

The transfer of electrons occurs in chemical reactions which maintain such biological processes, and there are cases where reactive oxygen species and free radicals, whose configuration of electrons is unstable, may be generated through the processes. For instance, when leukocytes remove bacteria and viruses invaded from outside, reactive oxygen species and free radicals are generated. This reaction of transferring electrons is called redox-reaction (a compound noun for Reduction and Oxidation). Many kinds of redox-reactions play important roles for the maintenance of homeostasis in the human body. Researchers point out that disruption of redox-reaction balance can cause cancers, life style-related disease, and cardiac diseases, etc.

In 2007, Innovation Center for Medical Redox Navigation (ICMRN)

was chosen for the Formulation of Advanced Collaborative Medical Innovation Center with Special Coordination Funds for Promoting Science and Technology. The Center started out its programs with five cooperative industry businesses (JEOL Technoservice Co.,Ltd., Shimadzu Corporation, Mitsubishi Tanabe Pharma Corporation, Taiho Pharmaceutical Co., Ltd. And HOYA Corporation) and three other businesses (Fuji Electric Co., Ltd., NOF Corporation and Kyushu Electric Power Co, Inc.) joined in 2010.

The Center activity is a joint effort between industry and academia, and each business possesses a high-level research and development capacity. Our mission is, in particular, to analyze redox conditions of life style-related disease, cancers, and neurological disease and consistently promote early diagnosis, medical treatment and development of therapeutic agents for relevant redox-diseases.



ReMI animal imaging setup and future plan of clinical scanner

Center for Organic Photonics and Electronics Research (OPERA)

<http://www.cstf.kyushu-u.ac.jp/~adachilab/lab/>



From Basic Research to Creating Innovative Organic Electroluminescent Materials

Established in April 2010 under the Japanese government's prestigious Funding Program for World-Leading Innovation R&D on Science and Technology (FIRST Program), OPERA has formed alliances with many organizations, including domestic and international universities and companies, and is conducting basic and applied research to accelerate industrialization of the next generation of organic photonics and electronics.

From molecular design, modeling, and synthesis to device fabrication, characterization, and analysis, the research at OPERA spans the broad range necessary to bring new innovations in organic electronics to reality from initial concept to application.

One example of the success of OPERA's

approach is the development of new organic materials that can convert electricity into light with high efficiency using the previously doubted mechanism of thermally-activated delayed fluorescence (TADF), as published in the journal Nature.

In addition to organic light-emitting materials and devices, OPERA is also pursuing research to realize the full potential of organic semiconductors to enable light-weight, flexible, and low-cost devices in other applications, such as solar cells and thermoelectric generators for power production and transistors for digital logic, and to open new, as-yet-unimagined possibilities.

OPERA will continue to blaze a new trail in the field of organic light-emitting materials with world-first advances in organic photochemistry.

Research on

- Organic Light-Emitting Diodes and Electroluminescence
- Characteristics and Physics of Organic Semiconductor Devices
- Organic Photophysics and Photochemistry



Organic synthesis laboratory



Clean room for device fabrication



Displays using TADF light-emitting materials

UNDERGRADUATE SCHOOLS

Schools	Departments	Sections
School of Letters	Department of Humanities	Philosophy; History; Literature; Human Sciences
School of Education		Science of Education; Educational Psychology
School of Law		Fundamental Legal Science; Public Law; Private and Criminal Law; Political Science; International Legal Studies
School of Economics	Department of Economy and Business	Economic Analysis: Financial System; International Monetary Economics; Securities Market, World Economy; Agricultural Policy; Information Economy; Development Economics; Economic Statistics; Regional Policy; International Trade and Investment Industrial Analysis: Industrial Policy; Industrial Technology; Industrial Location; Industrial Structure; Modern European Economic History; European Economic History; Japanese Economic History; Modern Japanese Economic History Corporate Analysis: Business Policy; Business Administration; Cost Accounting; Labor Management; Management Accounting; Corporate Accounting; Financial Accounting; International Accounting
	Department of Economic Engineering	Advanced Microeconomics; Advanced Macroeconomics; Advanced Econometrics; History of Economic Thought; Comparative Analysis of Institutions; Information System; Data Engineering; Environmental Economics; Applied Econometrics; Macroeconomics; Public Finance; Business Economics; Applied Microeconomics; Economic Policy; Statistical Analysis; Mathematical Planning; Mathematical Finance; Social Security; Finance
School of Sciences	Department of Physics	Theoretical Particle Physics; Theoretical Nuclear Physics; Astrophysics; Experimental Nuclear Physics; Experimental Particle Physics ; Condensed Matter Theory; Statistical Physics; Physics of Magnetism; Quantum Physics; Soft Matter Physics; Complex Matter Science; Information Physics; Discovery Science; Foundations of Informatics
	Department of Chemistry	Molecular Catalysis Chemistry; Synthetic Organic Chemistry; Bioorganic Chemistry; Constructive Organic Chemistry; Catalysis Organic Chemistry; Structure-Function Biochemistry; Molecular and Cellular Biochemistry; Chemical Physics and Biophysics; Structural Chemistry; Quantum Chemistry; Theoretical Chemistry; Coordination Chemistry; Inorganic Reaction Chemistry; Physical Coordination Chemistry; Analytical Chemistry; Physical Chemistry of Interfaces; Physical Chemistry of Soft Matter; Non-equilibrium Chemistry of Membranes; Interface Chemistry of Biomolecules
	Department of Earth and Planetary Sciences	Solar Terrestrial Physics; Space and Earth Electromagnetism; Middle Atmosphere Sciences; Tropospheric Sciences; Geophysical Fluid Dynamics; Seismology; Dynamics of the Earth's Interior; Petrological Science; Earth's Geologic Evolution; Paleoenvironmental Science; Formation and Evolution of Planetary Systems; Organic Geochemistry and Cosmochemistry; Inorganic Geochemistry for the Biosphere; Mineral Sciences
	Department of Mathematics	Algebraic Geometry; Number Theory; Combinatorics; Topology; Differential Geometry; Dynamical Systems; Representation Theory; Harmonic Analysis; Complex Analysis; Functional Analysis; Operator Algebra; History of Mathematics; Computational Mathematics; Numerical Analysis; Mathematical Statistics; Ordinary Differential Equations; Partial Differential Equations; Mathematical Physics; Integrable Systems; Probability Theory; Optimization; Discrete Mathematics; Special Functions; Cryptography; Control Theory
	Department of Biology	Animal Physiology; Genetics; Developmental Biology; Plant Molecular Biology; Ecology; Molecular Genetics; Molecular Neurobiology; Protein Science and Cellular Biochemistry; Biochemistry; Theoretical Biology; Molecular Cell Biology; Evolutionary Genetics; Marine Biology
School of Medicine	Department of Medicine	Introductory Course for Medicine; Medical Biology; Basic Life Science; Basic Medical Science; Clinical Medicine; Interdepartmental Lecture; Clinical Training; Integrated Medicine; Social Medicine
	Department of Biomedical Science	Biomedical Science
	Department of Health Sciences	Fundamental Nursing*; Clinical Nursing*; Pediatric and Maternal Nursing and Midwifery*; Community Health Nursing and Psychiatric Nursing*; Fundamental Radiological Sciences*; Clinical Radiological Sciences*; Biological Sciences and Technology*; Medical Sciences and Technology*
School of Dentistry	Department of Dentistry	Introductory Dentistry; Basic Dental Science; Oral Disease and Pathology; Oral Health Science; Clinical Dentistry
School of Pharmaceutical Sciences	Department of Clinical Pharmacy	Introductory Course for Pharmacy; General Pharmaceutical Sciences; Clinical Training
	Department of Medicinal Sciences	General Pharmaceutical Sciences; Industrial Pharmaceutics
School of Engineering	Department of Architecture	Architecture

Schools	Departments	Sections
School of Engineering	Department of Electrical Engineering and Computer Science	Electrical Engineering and Computer Science
	Department of Materials Science and Engineering	Chemical Engineering; Applied Chemistry; Materials Engineering
	Department of Earth Resources, Marine and Civil Engineering	Civil Engineering; Naval Architecture and Marine Systems Engineering; Earth System Engineering
	Department of Energy Science and Engineering	Energy Science and Engineering
	Department of Mechanical and Aerospace Engineering	Mechanical Engineering; Aeronautics and Astronautics
		(Common Subjects) General Electric Engineering; Engineering Mathematics
School of Design	Department of Environmental Design	Environmental Design
	Department of Industrial Design	Industrial Design
	Department of Visual Communication Design	Visual Communication Design
	Department of Acoustic Design	Acoustic Design
	Department of Art and Information Design	Art and Information Design
		(Common Subjects) Systems Science; Information Engineering
School of Agriculture	Department of Bioresource and Bioenvironment	Agricultural Production; Engineering and Economics; Applied Biological Science; Forest and Forest Products Sciences; Animal Production Science

*Specialized Fields

GRADUATE SCHOOLS

Graduate Schools	Departments	Sections
Graduate School of Humanities	Department of Philosophy	Philosophy and Ethics; Asian Philosophy; Art Studies
	Department of History and Geography	Japanese History; Asian History; History of Wide Area Civilization; Geography
	Department of Linguistics and Literature	Japanese and Chinese Literature; Western Literature; Linguistics
Graduate School of Integrated Sciences for Global Society	Department of Integrated Sciences for Global Society	Comprehensive Earth Sciences; Comprehensive Science of Biological Environment; International Cooperation, Security and Safety; Social Diversity and Coexistence; Language, Media, and Communication; Comprehensive East Asian and Japanese Studies
Graduate School of Human-Environment Studies	Department of Urban Design, Planning and Disaster Management	Urban Design; Urban Disaster Management
	Department of Clinical Psychology and Community Studies	Community Studies; Clinical Psychology; Counseling Psychology
	Department of Behavioral and Health Sciences	Psychology; Health and Sport Science

Graduate Schools	Departments	Sections
Graduate School of Human-Environment Studies	Department of Education	Contemporary Educational Practices, Comprehensive Human Formation (Master's Course), Education (Doctor's Course), International Social Development
	Department of Architecture	Architectural Planning and History; Environmental Design and Control in Architecture; Architectural Structures and Materials
	Department of Clinical Psychology Practice (Professional Graduate School)	Psychological Assessment; Psychotherapy; Community Approach
Graduate School of Law	Department of Law and Politics	Legal Culture; Legal History; Dynamics of Law Public Law; Social Law Private Law; Criminal Law; Private and Criminal Law Joint Program International Legal Studies; International Legal Studies Joint Program Political Theory; Comparative Studies of Politics
Law School (Professional Graduate School)	Department of Legal Practice	Legal Theory and Practice
Graduate School of Economics	Department of Economic Engineering	Economic System Analysis; Economic Analysis and Policy; Mathematical and Computer Sciences
	Department of Economic Systems	Economic Systems
	Department of Business and Technology Management (Kyushu University Business School, QBS)	Business and Technology Management
Graduate School of Sciences	Department of Physics	Theoretical Particle Physics; Theoretical Nuclear Physics; Astrophysics; Experimental Nuclear Physics; Experimental Particle Physics; Condensed Matter Theory; Statistical Physics; Surface Physics and Biophysics; Physics of Magnetism; Quantum Physics of Nanoscopic Systems; Transport Properties in Low Dimensional Systems; Physics of Complex Systems; Complex Fluids; Physics of Disordered Matter
	Department of Chemistry	Inorganic and Analytical Chemistry; Physical Chemistry; Organic and Biological Chemistry; Materials Chemistry and Engineering
	Department of Earth and Planetary Sciences	Earth Planetary Fluid and Space Sciences (Solar Terrestrial Physics, Space and Earth Electromagnetism, Middle Atmosphere Sciences, Tropospheric Sciences, Geophysical Fluid Dynamics); Dynamics, Structure and Evolution of the Earth and Planets (Seismology, Dynamics of the Earth's Interior, Petrological Science, Earth's Geologic Evolution, Paleoenvironmental Science); Material Science of Solar Planets (Formation and Evolution of Planetary Systems, Organic Geochemistry and Cosmochemistry, Inorganic Geochemistry for the Biosphere, Mineral Sciences); Observational Seismology and Volcanology; Paleobiology and Mineral History
Graduate School of Mathematics	Department of Mathematics	Algebraic Geometry; Number Theory; Topology; Differential Geometry; Dynamical Systems; Representation Theory; Harmonic Analysis; Complex Analysis; Functional Analysis; Operator Algebra; History of Mathematics; Computational Mathematics; Numerical Analysis; Statistics; Ordinary Differential Equations; Partial Differential Equations; Mathematical Physics; Integrable Systems; Probability Theory; Optimization; Discrete Mathematics; Special Functions; Cryptography; Control Theory; Computational Mathematics
Graduate School of Systems Life Sciences	Department of Systems Life Sciences	Bioinformatics; Life Engineering; Medical Molecular Cell Biology; Molecular Life Sciences; Animal Physiology; Genetics; Developmental Biology; Plant Molecular Biology; Ecology; Molecular Genetics; Molecular Neurobiology; Protein Science and Cellular Biochemistry; Biochemistry; Theoretical Biology; Molecular Cell Biology; Evolutionary Genetics; Marine Biology
Graduate School of Medical Sciences	Department of Medical Sciences	Morphology; Radiology; Biomedical Regulation; Neurological Science; Immunogenetics Developmental Medicine and Pediatric Surgery; Reproductive Pathophysiology; Molecular and Cell Therapeutics; Epigenomics Pathology; Microbiology; Molecular Immunology; Host Defense; Biochemistry and Molecular Biology; Molecular and Cellular Immunology Internal Medicine; Surgery; Cardiovascular Science; Molecular Cardiology; Respiratory Medicine; Molecular and Surgical Oncology; Molecular and Clinical Genetics; Clinical Immunology; Molecular and Clinical Gerontology Physiology; Biochemistry and Molecular Biology; Pharmacological Science; Nuerofunctional Genetics; Cell Biology; Embryonic and Genetic Engineering; Biomedicine; Social Medicine; Medical Information Science and Health Policy; Medical Education; Molecular Immunology ; Comprehensive Clinical Oncology

Graduate Schools	Departments	Sections
Graduate School of Medical Sciences	Doctor Course in Graduate School of Health Sciences	Nursing; Radiological Sciences; Medical Technology
	Master Course in Graduate School of Medical Sciences	Medical Sciences
	Master Course in Graduate School of Health Sciences	Nursing; Medical Quantum Science; Medical Technology
	Department of Health Care Administration and Management	Health Care Administration and Management
Graduate School of Dental Science	Department of Dental Science	Oral Biological Sciences; Oral Health, Growth and Development; Oral Rehabilitation; Maxillofacial Diagnostic and Surgical Sciences; Hospital Dentistry; Interdisciplinary Dentistry; Oral Health, Technology and Epidemiology; Oral Biological Response Research
Graduate School of Pharmaceutical Sciences	Department of Clinical Pharmacy	Pharmaceutical Care Administration and Management; Clinical Research
	Department of Medicinal Sciences	Pharmaceutical Sciences; Science and Technology for Drug Development
Graduate School of Engineering	Department of Chemistry and Biochemistry	Applied Inorganic Chemistry; Functional Design Chemistry; Biofunctional Chemistry; Biomimetics; Supramolecular Chemistry; Advanced Nanomaterials Science and Engineering; Science and Technology for Soft Materials; Advanced Graduate Program on Molecular Systems for Devices
	Department of Materials Process Engineering	Reaction Engineering for Materials; Mechanical and Chemical Processing for Metals and Composites; Chemical Engineering for Materials Processing
	Department of Materials Physics and Chemistry	Macromolecules and Molecular Systems Chemistry; Functional Materials Chemistry; Microstructure Analysis and Design; Functional Materials Engineering; Advanced Nanomaterials Science and Engineering
	Department of Chemical Systems and Engineering	Molecular Systems Chemistry; Molecular Information Chemistry; Bioprocess Chemistry, Biochemical Engineering; Environment-Benign Systems Engineering
	Department of Civil and Structural Engineering	Construction Materials and Structural Integrity Assessment; Structural Mechanics and Earthquake Engineering; Disaster Prevention and Geotechnical Engineering; Environmental Geotechnology
	Department of Urban and Environmental Engineering	Urban and Transportation Planning; Aesthetic, Functional and Structural Design; Urban Environment and River Engineering; Environmental Systems Engineering
	Department of Maritime Engineering	Coastal and Oceanographic Engineering; Ship and Marine Dynamics; Structural Engineering of Ship and Marine Systems
	Department of Earth Resources Engineering	Earth Science and Technology; Mining Engineering; Energy Resources Engineering; ASEAN-Japan BUILD-UP Cooperative Education Program
	Department of Applied Quantum Physics and Nuclear Engineering	Applied Nuclear Physics; Nuclear Energy Systems; Quantum Sciences of Materials; Applied Physics
	Department of Mechanical Engineering	Material Strength and Design System; Fluids Engineering; Thermal Engineering; Dynamics of Machinery; Control and Systems; Manufacturing Processes; Bioengineering
	Department of Hydrogen Energy Systems	Hydrogen Storage Systems; Hydrogen Utilization Systems; Hydrogen Materials Strength and Machine Design; Hydrogen Thermofluid Engineering; Advanced Hydrogen Materials; Hydrogen Molecular Science
	Department of Aeronautics and Astronautics	Thermophysics and Fluid Mechanics; Aerospace Structures and Structural Dynamics; Flight Dynamics and Controls; Space Systems Engineering; Wind Engineering; Nano-mechanics; Heterogeneous Solid Mechanics; Aeronautical Engineering Collaboration Course with JAXA
		Green Asia Office
Graduate School of Design	Department of Design	Human Science / Physiological Anthropology; Perceptual Psychology; Applied Mathematics and Computer Science
		Communication Design Science / Audio-visual Integration; Acoustic Communication; Visual Image Communication / Hall Management Engineering

Graduate Schools	Departments	Sections
Graduate School of Design	Department of Design	Environment and Heritage Design / Environment and Heritage Theory; Environment and Heritage Management; Environment Design Technology Content and Creative Design / Art Theory and Practice; Digital Content Design; Creative Design
	Department of Design Strategy	Design Business; Design and Architecture; Design Experience
Graduate School of Information Science and Electrical Engineering	Department of Informatics	Mathematical Informatics; Intelligence Science; Computational Science
	Department of Advanced Information Technology	Advanced Information and Communication Technology; Advanced Software Engineering; Real World Robotics; Advanced Distributed Processing Systems; Practical Embedded Software Development Engineering; Information Communication Engineering
	Department of Electrical and Electronic Engineering	Electronic Devices; Integrated Electronics; Measurement and Control Engineering; Applied Electric Energy Systems; Superconductive Systems; Electronics and Communication Engineering
Interdisciplinary Graduate School of Engineering Sciences	Department of Applied Science for Electronics and Materials	Electrical Engineering; Optical and Electrical Materials; Nonlinear Material Physics; Molecular Process Engineering; Molecular Materials Science; Material Characterization
	Department of Molecular and Material Sciences	Solid Surface Science; Functional and Structural Materials Science; Molecular Dynamics and Spectroscopy; Strength of Materials; Design of Functional Organic Molecules; Organic and Organometallic Synthesis; Hybrid Material Science; Development of Advanced Materials
	Department of Advanced Energy Engineering Science	High Density Energy Science; Engineering Science for Advanced Energy Systems; Fusion Plasma Engineering Science; High Energy Material Science; Advanced Energy Systems Technology
	Department of Energy and Environmental Engineering	Fluid and Thermo Dynamics; Thermal Environment Engineering; Effective Energy Utilization; Transport Phenomena
	Department of Earth System Science and Technology	Fluid Environmental Research; Fundamental and Geophysical Fluid Dynamics; Environmental Metrology; Environmental Prediction; Marine System Development
		Campus Asia Office; Green Asia Office
Graduate School of Bioresource and Bioenvironmental Sciences	Department of Bioresource Sciences	Agricultural Bioresource Sciences; Animal and Marine Bioresource Sciences
	Department of Agro-environmental Sciences	Forest Sciences; Bioproduction Environmental Sciences; Agronomy and Environmental Sciences; Sustainable Bioresource Science
	Department of Agricultural and Resource Economics	Agricultural and Resource Economics
	Department of Bioscience and Biotechnology	Molecular Biosciences; Systems Biology; Applied Molecular Microbiology and Biomass Chemistry; Food Science and Biotechnology
	(Department of Innovative Science and Technology for Bio-industry)	(Bio-System Design; Functional Biomaterials Design [Doctor Course only])
Graduate School of Integrated Frontier Sciences	Department of Kansei Science	Kansei Research; Kansei Communication; Kansei Value Creation
	Department of Automotive Science	Advanced Material and Chemistry; Dynamics; Information and Control; Human Science; Social Science
	Department of Library Science	Library Science

FACULTIES

Faculties	Departments	Sections
Faculty of Humanities	Department of Philosophy	Philosophy; Ethics; History of Indian Philosophy; History of Chinese Philosophy; Art Studies
	Department of History	Japanese History; Chinese History; Korean History; Archaeology; Western History; History of Islamic Civilization; Geography
	Department of Linguistics and Literature	Japanese Language and Literature; Chinese Literature; English Language and Literature; German Literature; French Literature; Linguistics
Faculty of Social and Cultural Studies	Department of Environmental Changes	Earth Sciences; Biodiversity Sciences; Basic Structure of Human Societies; Polar Region Environment; Biodiversity Inventory
	Department of Social Studies	Historical Material Information; Social Change; International Relations and Social Information
	Department of Cultural Studies	Cultural Dynamics; Culture and Representation
Faculty of Human-Environment Studies	Department of Human Sciences	Sociology and Anthropology; Psychology; Clinical Psychology; Health and Sport Science
	Department of Education	Educational and Social Planning Studies; Comparative and International Education Studies
	Department of Architecture and Urban Design	Urban Design; Urban Disaster Management; Architectural Planning and History; Environmental Design and Control in Architecture; Architectural Structures and Materials; Sustainable Architecture and Urban Systems
Faculty of Law	Department of Fundamental Legal Science	Legal Culture; Legal History; Dynamics of Law
	Department of Public and Social Law	Public Law; Social Law
	Department of Private and Criminal Law	Private Law; Criminal Law; Private and Criminal Law Joint Program
	Department of International Legal Studies	International Legal Studies; International Legal Studies Joint Program
	Department of Political Science	Political Theory; Comparative Studies of Politics
	Department of Legal Practice	Legal Practice
Faculty of Economics	Department of Economic Engineering	Economic System Analysis; Economic Analysis and Policy; Mathematical and Computer Sciences
	Department of Industrial and Business System	Industrial System; Management System; Accounting System
	Department of International Economic Study and Business Administration	International Economy Analysis; International Business Analysis; Asian Economic Studies
	Department of Business and Technology Management	Business Administration; Technology Management; Asian Business
Faculty of Languages and Cultures	Department of Linguistic Environment	Language Education; Linguistic Information
	Department of Multicultural Society	International Symbiosis; International Culture
Faculty of Sciences	Department of Physics	Theoretical Particle Physics; Theoretical Nuclear Physics; Astrophysics; Experimental Nuclear Physics; Experimental Particle Physics; Condensed Matter Theory; Statistical Physics; Surface Physics and Biophysics; Physics of Magnetism; Quantum Physics of Nanoscopic Systems; Transport Properties in Low Dimensional Systems; Physics of Complex Systems; Complex Fluids; Physics of Disordered Matter
	Department of Chemistry	Inorganic and Analytical Chemistry; Physical Chemistry; Organic and Biological Chemistry; Interdisciplinary Chemistry

Faculties	Departments	Sections
Faculty of Sciences	Department of Earth and Planetary Sciences	Earth Planetary Fluid and Space Sciences (Solar Terrestrial Physics, Space and Earth Electromagnetism, Middle Atmosphere Sciences, Tropospheric Sciences, Geophysical Fluid Dynamics); Dynamics, Structure and Evolution of the Earth and Planets (Seismology, Dynamics of the Earth's Interior, Petrological Science, Earth's Geologic Evolution, Paleoenvironmental Science); Material Science of Solar Planets (Formation and Evolution of Planetary Systems, Organic Geochemistry and Cosmochemistry, Inorganic Geochemistry for the Biosphere, Mineral Sciences); Observational Seismology and Volcanology
	Department of Biology	Animal Physiology; Genetics; Developmental Biology; Plant Molecular Biology; Ecology; Molecular Genetics; Molecular Neurobiology; Protein Science and Cellular Biochemistry; Biochemistry; Theoretical Biology; Molecular Cell Biology; Evolutionary Genetics; Marine Biology
Faculty of Mathematics	Department of Mathematics	Algebraic Geometry; Number Theory; Topology; Differential Geometry; Dynamical Systems; Representation Theory; Harmonic Analysis; Complex Analysis; Ordinary Differential Equations; Mathematical Physics; Integrable Systems; Discrete Mathematics; Special Functions
	Department of Mathematical Sciences	Functional Analysis; Operator Algebra; Computational Mathematics; Numerical Analysis; Statistics; Ordinary Differential Equations; Partial Differential Equations; Integrable Systems; Probability Theory; Optimization; Control Theory
Faculty of Medical Sciences	Department of Basic Medicine	Bioregulation; Science for Biological Information, Pathobiology; Social Medicine, Health Care Administration and Management
	Department of Advanced Medical Initiatives	Advanced Medical Initiatives
	Department of Clinical Medicine	Internal Medicine; Surgery, Reproductive and Developmental Medicine
	Department of Molecular Biology	Molecular Biology; Biology of Sex Difference
	Department of Medical Education	Medical Education
	Department of Health Sciences	Nursing; Medical Quantum Science; Medical Technology
Faculty of Dental Science	Department of Stem cell Biology and Medicine	Stem cell Biology and Medicine
	Department of Dental Science	Oral Biological Sciences; Oral Health, Growth and Development; Oral Rehabilitation; Maxillofacial Diagnostic and Surgical Sciences; Oral Health, Technology and Epidemiology; Oral Biological Response Research
Faculty of Pharmaceutical Sciences	Department of Pharmaceutical Health Care and Sciences	Clinical Pharmacy; Pharmaceutical Care and Informatics; Drug Delivery Systems; Kampo-Medicinal Chemistry
	Department of Medicinal Sciences	Medicinal Chemistry; Molecular Bioinformatics; Regulation of Chemotherapy
Faculty of Engineering	Department of Chemical Engineering	Molecular and Biochemical Systems Engineering; Industrial Process Engineering
	Department of Applied Chemistry	Advanced Organic and Inorganic Chemistry; Biofunctional Chemistry; Advanced Materials Chemistry; Analytical Chemistry and Bioengineering; Advanced Nanomaterials Science and Engineering
	Department of Materials Science and Engineering	Reaction Engineering of Materials; Materials Processing; Materials Physics; Advanced Nanomaterials Science and Engineering
	Department of Civil Engineering	Structural and Earthquake Engineering; Structural Design and Concrete Engineering; Geotechnical and Geoenvironmental Engineering
	Department of Urban and Environmental Engineering	Urban Planning and Management; Hydrosphere Sustainability Engineering; Water and Material Cycles System
	Department of Marine Systems Engineering	Ship and Marine Dynamics; Structural Engineering of Ship and Marine Systems; Marine Systems Design
	Department of Earth Resources Engineering	Earth Science and Technology; Mining Engineering; Energy Resources Engineering; ASEAN-Japan BUILD-UP Cooperative Education Program
Department of Applied Quantum Physics and Nuclear Engineering	Applied Nuclear Physics; Nuclear Energy Systems; Quantum Sciences of Materials; Applied Physics	

Faculties	Departments	Sections
Faculty of Engineering	Department of Mechanical Engineering	Strength of Materials; Fluids Engineering; Thermal Engineering; Combustion; Dynamics of Mechanical Systems; Control and Systems; Manufacturing Processes; Machine Design and Bionic Systems; Hydrogen Utilization Engineering; Advanced Hydrogen Materials
	Department of Aeronautics and Astronautics	Thermophysics and Fluid Mechanics; Aerospace Structures and Structural Dynamics; Flight Dynamics and Controls; Space Systems Engineering; Aeronautical Engineering Collaboration Course with JAXA
Faculty of Design	Department of Human Science	Physiological Anthropology; Perceptual Psychology; Modeling and Optimization
	Department of Communication Design Science	Sound Culture and Art Management; Science of Sound Design; Communicative Acoustic Systems; Image Information Engineering
	Department of Environmental Design	Landscape and Social Environment Design; Built Environment Design; Architectural History and Cultural Property
	Department of Content and Creative Design	Art; Creative Design; Content Design; Interaction Design
	Department of Design Strategy	Social System Design; Social Innovation Design; Social Communication Design
Faculty of Information Science and Electrical Engineering	Department of Informatics	Mathematical Informatics; Intelligence Science
	Department of Advanced Information Technology	Advanced Information and Communication Technology; Advanced Software Engineering; Real World Robotics; Practical Embedded Software Development Engineering
	Department of Electronics	Electronic Devices; Integrated Electronics; Electronics and Communication Engineering
	Department of Electrical Engineering	Measurement and Control Engineering; Applied Electric Energy Systems; Superconductive Systems
	Department of I&E Visionaries	
Faculty of Engineering Sciences	Department of Engineering Sciences for Electronics and Materials	Electrical Engineering; Material Engineering; Nonlinear Material Physics; Material Characterization
	Department of Energy and Material Sciences	Solid Surface Science; Design of Functional Materials; Physical Chemistry and Chemical Physics; Thermal and Fluids Engineering; Development of Advanced Materials
	Department of Energy Engineering Science	High Density Energy Science; Engineering Science for Energy Systems; Advanced Energy System Technology
	Department of Energy and Environmental Engineering	Fluid and Thermo Dynamics; Thermal Environment Engineering
	Department of Environmental Fluid Science and Technology	Fluid Environmental Research
		Campus Asia Office
Faculty of Agriculture	Department of Bioresource Sciences	Agricultural Bioresource Sciences; Animal and Marine Bioresource Sciences
	Department of Agro-environmental Sciences	Forest Environmental Sciences; Bioproduction Environmental Sciences; Agronomy and Environmental Sciences; Sustainable Bioresources Science
	Department of Agricultural and Resource Economics	Agricultural and Resource Economics
	Department of Bioscience and Biotechnology	Molecular Biosciences; Systems Biology; Applied Molecular Microbiology and Biomass Chemistry; Food Science and Biotechnology

RESEARCH INSTITUTES

Institutes	Divisions	
Medical Institute of Bioregulation	Department of Molecular Genetics	Molecular and Clinical Genetics; Epigenomics and Development; Cancer Genetics
	Department of Molecular and Cellular Biology	Cell Biology; Organogenesis and Regeneration
	Department of Immunobiology and Neuroscience	Immunogenetics Neurofunctional Genomics; Cell Regulation Systems
	Research Center for Transomics Medicine	Genomics; Epigenomics; Proteomics; Integrated Omics
	Multi-scale Research Center for Medical Science	Structural Biology; Bioinformatics; System Cohort; Molecular Design; Regeneration Biology
	Research Center for Infectious Diseases	Host Defense; Molecular and Cellular Immunology; Molecular Immunology
Research Institute for Applied Mechanics	Division of Renewable Energy Dynamics	
	Division of Earth Environment Dynamics	
	Division of Nuclear Fusion Dynamics	
	Center for East Asian Ocean-Atmosphere Research	
	Advanced Fusion Research Center	
Institute for Materials Chemistry and Engineering	Renewable Energy Center	
	Fundamental Organic Chemistry	
	Applied Molecular Chemistry	
	Integrated Materials	
	Advanced Device Materials	
Institute of Mathematics for Industry	Soft Materials Chemistry	
	Division of Advanced Mathematics Technology	Cryptography, Statistics, Pattern Recognition, Image Analysis, Computer Algebra, Symbolic-Numeric Hybrid Computation, Numerical Analysis, Computational Mechanics, Applied Topology, Dynamical Systems, Optimization
	Division of Applied Mathematics	Nonlinear Analysis, Integrable Systems, Computational Statistics, Fluid Dynamics, Vortex Dynamics, Mathematical Modeling, Network Theory, Computer-Assisted Proof, Computer Science, Mathematical Statistics, Algorithms and Machine Learning, Dynamical Systems, Functional Analysis
	Division of Fundamental Mathematics	Algebraic Analysis, Differential Geometry, Topology, Singularity Theory, Differential Topology, DNA Knots, Probability Theory, Representation Theory, Zeta Functions
	Laboratory of Advanced Software in Mathematics	Nonlinear Analysis, Probability Theory, Determinantal Point Processes, Cryptography, Information Security, Computational Number Theory, Software Science, Graph Transformation, Theory of Computing, Mathematical Statistics, Biometrics, Mathematical Programming, Continuous Optimization, Semidefinite Programming Problem, Optimization Software

UNIVERSITY STAFF

(As of May 1, 2013)

Board Members: 11

Faculty: 2,333

Professors: 660

Associate Professors: 603

Lecturers: 118

Assistant Professors: 669

Research Associates (jyun jyokyo): 18

Special Fixed-term Faculty: 265

Administrative / Medical / Technical Staff: 4328

Permanent: 2010

Fixed-term / Project-based: 772

Part-time: 1546

Total University Staff: 7784

STUDENT ENROLLMENT

Total : 18,799

(As of May 1, 2013)

University Divisions	Undergraduate Students	Graduate Students		
		Master's Course	Professional Graduate School	Doctor's Course
Letters (School) Humanities	716 (452)	84 (50)		106 (51)
Education	220 (141)			
Law	857 (302)	102 (36)		29 (13)
Law School (Professional Graduate School)			175 (48)	
Economics	1,085 (217)	91 (46)	92 (23)	61 (16)
Sciences	1,265 (237)	296 (48)		81 (19)
Medicine (School) Medical Sciences	1,287 (546)	105 (46)	48 (30)	582 (175)
Dentistry (School) Dental Science	333 (140)			180 (82)
Pharmaceutical Sciences	411 (178)	103 (44)		89 (25)
Engineering	3,612 (278)	934 (77)		424 (58)
Design	902 (320)	305 (112)		123 (45)
Agriculture (School) Bioresource and Bioenvironmental Sciences	985 (425)	450 (191)		192 (67)
Human-Environment Studies		230 (89)	55 (46)	152 (63)
Information Science and Electrical Engineering		369 (31)		125 (15)
Social and Cultural Studies		123 (82)		144 (88)
Mathematics		115 (11)		68 (7)
Systems Life Sciences				255 (82)
Interdisciplinary Graduate School of Engineering Sciences		396 (32)		137 (30)
The 21st Century Program	118 (80)			
Integrated Frontier Sciences		150 (57)		37 (13)
Total	11,791 (3,316)	3,853 (952)	370 (147)	2,785 (849)

Notes: (1) () indicates females who are included in the total number of students.

(2) Belonging to each division, students in the 21st Century Program are included in their respective divisions.

NUMBER OF GRADUATE STUDENTS AND DEGREE AWARDED

(As of Apr. 1, 2013)

Graduate School / School / Institute	Old System		New System A			New System B		
	Bachelor's	Doctorates	Bachelor's	Master's	Doctorates	Bachelor's	Master's	Doctorates
Letters	1,069	43	4,599	1,128	16 (107)	3,513	785	153 (154)
Education (School)	—	—	1,161	369	4 (24)	1,193	—	—
Education	—	—	—	—	—	—	188	16 (44)
Law	3,196	61	8,582	324	9 (27)	5,564	1,145	109 (44)
Economics	2,188	22	8,273	306	10 (90)	5,881	746	170 (61)
Sciences	607	208	6,268	2,105	499 (527)	6,420	3,050	713 (196)
Medicine (School)	4,766	—	3,858	—	891 (1,549)	3,331	—	—
Medical Sciences	—	5,310	—	—	16 (—)	—	295	1,716 (1,119)
Dentistry (School)	—	—	1,033	—	79 (44)	1,310	—	—
Dental Science	—	—	—	—	1 (—)	—	—	513 (65)
Pharmaceutical Sciences	41	—	2,405	833	185 (383)	1,740	1,380	329 (183)
Engineering	5,363	407	20,668	6,567	502 (910)	18,210	8,974	1,746 (678)
Design	—	—	—	—	—	1,185	1,117	108 (26)
Agriculture (School)	2,252	—	6,524	—	—	5,470	—	—
Agriculture, Bioresource and Bioenvironmental Sciences	—	541	—	1,940	529 (1,165)	—	4,159	1,046 (469)
Human-Environment Studies	—	—	—	—	—	—	1,599	296 (61)
Information Science and Electrical Engineering	—	—	—	—	—	—	2,675	503 (104)
Social and Cultural Studies	—	—	—	—	—	—	892	204 (33)
Mathematics	—	—	—	—	—	—	903	157 (48)
Systems Life Sciences	—	—	—	—	—	—	523	108 (18)
Interdisciplinary Graduate School of Engineering Sciences	—	—	—	1,351	105 (148)	—	4,467	758 (241)
21st Century Program	—	—	—	—	—	213	—	—
Integrated Frontier Sciences	—	—	—	—	—	—	171	12(0)
Total	19,482	6,592	63,371	14,923	2,846 (4,974)	54,030	33,069	8,657(3,544)
Design (Kyushu Institute of Design)	—	—	2,212	331	—	3,057	1,038	135 (19)

NOTES: New Education System A-Bachelor's: Doctorate s: 1949-1991 Master s: 1953-1991

New Education System B-Bachelor s, Master s, Doctorate s: 1991-

Design (Kyushu Institute of Design); New Education System A-Bachelor s: 1968-1991 Master s: 1979-1991

Design (Kyushu Institute of Design); New Education System B-Bachelor s, Master s: 1991-, Doctorate s: 1996-

The numbers in parentheses indicate the number of doctorate degrees awarded through the submission of a dissertation without going through the doctoral course studies.

NUMBER OF GRADUATE STUDENTS AND DEGREE AWARDED (PROFESSIONAL SCHOOL)

(As of Apr. 1, 2013)

Graduate School	
Human-Environment Studies	209
Economics	383
Medical Sciences	174
Law School	661
Total	1,427

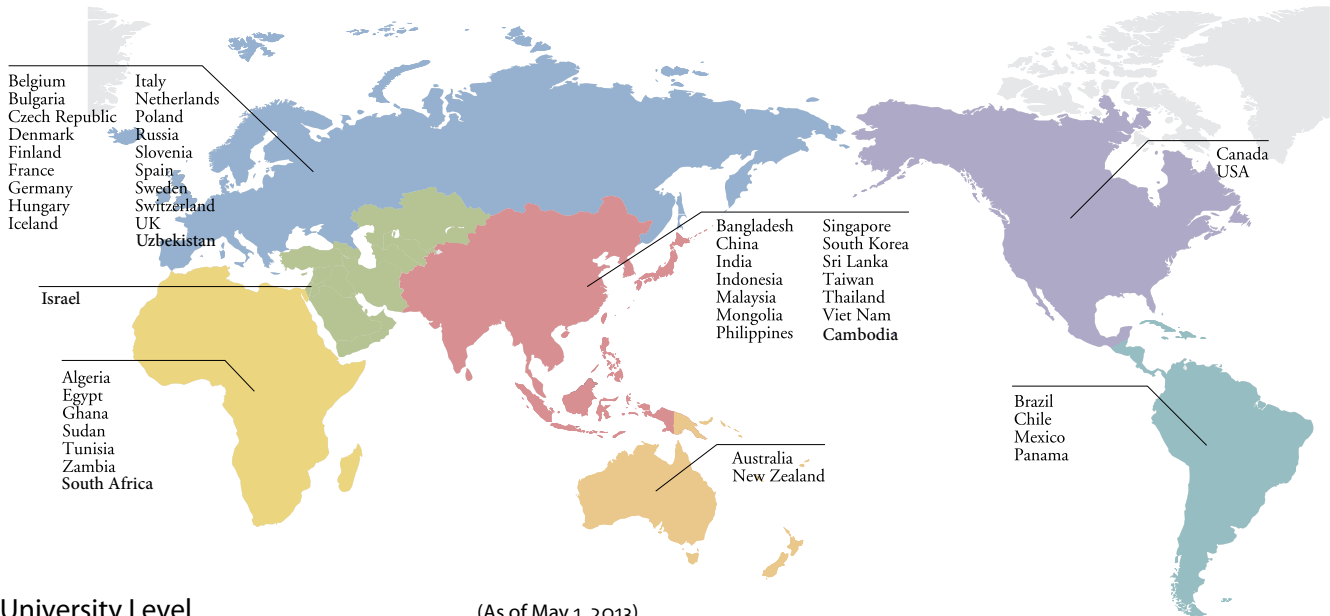
INTERNATIONAL ACADEMIC COOPERATION AND STUDENT EXCHANGE PARTNERSHIPS

Number of Agreements for Academic Cooperation (As of May 1, 2013)

Region	Asia	Middle and Near East	Africa	Europe	North America	Central and South America	Oceania	Others	Total
University level	58	0	3	34	10	5	4	1	115
Faculty level	122	1	10	70	20	3	4	0	230

Number of Student Exchange Partnerships (As of May 1, 2013)

Region	Asia	Middle and Near East	Africa	Europe	North America	Central and South America	Oceania	Others	Total
University level	53	0	2	33	15	4	3	0	110
Faculty level	72	0	7	38	7	1	2	0	127



University Level (As of May 1, 2013)

Region / Country	Institution	Date of Conclusion	
		Academic Cooperation	Student Exchange Program
India	Indian Institute of Technology, Madras	<input type="checkbox"/>	<input type="checkbox"/>
	Indian Institute of Technology, Bombay	<input type="checkbox"/>	<input type="checkbox"/>
Indonesia	Universitas Gadjah Mada	<input type="checkbox"/>	<input type="checkbox"/>
	Indonesian Institute of Sciences (LIPI)	<input type="checkbox"/>	<input type="checkbox"/>
Korea	Pusan National University	<input type="checkbox"/>	<input type="checkbox"/>
	Chungnam National University	<input type="checkbox"/>	<input type="checkbox"/>
	Ewha Womans University	<input type="checkbox"/>	<input type="checkbox"/>
	Yonsei University	<input type="checkbox"/>	<input type="checkbox"/>
	Sogang University	<input type="checkbox"/>	<input type="checkbox"/>
	Chonbuk National University	<input type="checkbox"/>	<input type="checkbox"/>
	Kyung-Hee University	<input type="checkbox"/>	<input type="checkbox"/>
	Seoul National University	<input type="checkbox"/>	<input type="checkbox"/>
	Pohang University of Science and Technology	<input type="checkbox"/>	<input type="checkbox"/>
	Kyungpook National University	<input type="checkbox"/>	<input type="checkbox"/>
ASIA	Cheju National University	<input type="checkbox"/>	<input type="checkbox"/>
	Gyeongsang National University	<input type="checkbox"/>	<input type="checkbox"/>
	Dong-A University	<input type="checkbox"/>	<input type="checkbox"/>
	Kangwon National University	<input type="checkbox"/>	<input type="checkbox"/>
	Sungkyunkwan University	<input type="checkbox"/>	<input type="checkbox"/>
	Dongguk University	<input type="checkbox"/>	<input type="checkbox"/>
	Korea University	<input type="checkbox"/>	<input type="checkbox"/>
	Chonnam National University	<input type="checkbox"/>	<input type="checkbox"/>
	Chung-Ang University	<input type="checkbox"/>	<input type="checkbox"/>
	Korea Advanced Institute of Science and Technology (KAIST)	<input type="checkbox"/>	<input type="checkbox"/>
Singapore	Academy of Korean Studies	<input type="checkbox"/>	<input type="checkbox"/>
	National University of Singapore	<input type="checkbox"/>	<input type="checkbox"/>
Singapore	Singapore Management University	<input type="checkbox"/>	<input type="checkbox"/>
	Chulalongkorn University	<input type="checkbox"/>	<input type="checkbox"/>
Thailand	Mahidol University	<input type="checkbox"/>	<input type="checkbox"/>
	Thammasat University	<input type="checkbox"/>	<input type="checkbox"/>
	Thai-Nichi institute of technology	<input type="checkbox"/>	<input type="checkbox"/>
China	Zhongshan University	<input type="checkbox"/>	<input type="checkbox"/>
	South China University of Technology	<input type="checkbox"/>	<input type="checkbox"/>
	South China Agricultural University	<input type="checkbox"/>	<input type="checkbox"/>
	Peking University	<input type="checkbox"/>	<input type="checkbox"/>
	Jilin University	<input type="checkbox"/>	<input type="checkbox"/>
	Xinjiang Normal University	<input type="checkbox"/>	<input type="checkbox"/>

Region / Country	Institution	Date of Conclusion		
		Academic Cooperation	Student Exchange Program	
ASIA	Beijing Normal University	<input type="checkbox"/>	<input type="checkbox"/>	
	Tsinghua University	<input type="checkbox"/>	<input type="checkbox"/>	
	University of Science and Technology of China	<input type="checkbox"/>	<input type="checkbox"/>	
	University of Hong Kong	<input type="checkbox"/>	<input type="checkbox"/>	
	Sichuan University	<input type="checkbox"/>	<input type="checkbox"/>	
	Zhejiang University	<input type="checkbox"/>	<input type="checkbox"/>	
	Shanghai Jiao Tong University	<input type="checkbox"/>	<input type="checkbox"/>	
	Fudan University	<input type="checkbox"/>	<input type="checkbox"/>	
	Renmin University of China	<input type="checkbox"/>	<input type="checkbox"/>	
	Nanjing University	<input type="checkbox"/>	<input type="checkbox"/>	
	Beijing University of Aeronautics and Astronautics	<input type="checkbox"/>	<input type="checkbox"/>	
	Xi'an Jiaotong University	<input type="checkbox"/>	<input type="checkbox"/>	
	Northeast Normal University	<input type="checkbox"/>	<input type="checkbox"/>	
	Tongji University	<input type="checkbox"/>	<input type="checkbox"/>	
	Wuhan University	<input type="checkbox"/>	<input type="checkbox"/>	
	Nankai University	<input type="checkbox"/>	<input type="checkbox"/>	
	Huazhong University of Science and Technology	<input type="checkbox"/>	<input type="checkbox"/>	
	Chinese University of Hong Kong	<input type="checkbox"/>	<input type="checkbox"/>	
China Agricultural University	<input type="checkbox"/>	<input type="checkbox"/>		
Taiwan	Industrial Technical Research Institute	<input type="checkbox"/>	<input type="checkbox"/>	
	National Taiwan University	<input type="checkbox"/>	<input type="checkbox"/>	
	Tamkang University	<input type="checkbox"/>	<input type="checkbox"/>	
Bangladesh	National Tsing Hua University	<input type="checkbox"/>	<input type="checkbox"/>	
	Grameen Communications	<input type="checkbox"/>	<input type="checkbox"/>	
Philippines	University of the Philippines	<input type="checkbox"/>	<input type="checkbox"/>	
	Ateneo De Manila University	<input type="checkbox"/>	<input type="checkbox"/>	
Malaysia	University of Malaya	<input type="checkbox"/>	<input type="checkbox"/>	
	Cairo University	<input type="checkbox"/>	<input type="checkbox"/>	
AFRICA	Alexandria University	<input type="checkbox"/>	<input type="checkbox"/>	
	The Republic of the Sudan	National Center for Research	<input type="checkbox"/>	
EUROPE	Iceland	University of Iceland	<input type="checkbox"/>	
	United Kingdom	University of Birmingham	<input type="checkbox"/>	<input type="checkbox"/>
		The University of Glasgow	<input type="checkbox"/>	<input type="checkbox"/>
		University of Bristol	<input type="checkbox"/>	<input type="checkbox"/>
		The University of Sheffield	<input type="checkbox"/>	<input type="checkbox"/>
		Newcastle University	<input type="checkbox"/>	<input type="checkbox"/>
	School of Oriental and African Studies, University of London	<input type="checkbox"/>	<input type="checkbox"/>	
	The University of Warwick	<input type="checkbox"/>	<input type="checkbox"/>	

Region / Country	Institution	Date of Conclusion		
		Academic Cooperation	Student Exchange Program	
Netherlands	Leiden University	○	○	
	Uppsala University	○	○	
Sweden	KTH-The Royal Institute of Technology	○	○	
	Stockholm University	○	○	
Germany	Ludwig-Maximilians University	○	○	
	Hannover Veterinary College	○	○	
	University of Hannover	○	○	
	Technische Universität München	○	○	
	University of Hohenheim	○	○	
EUROPE	Heidelberg University	○	○	
	Bordeaux 1 University, Bordeaux Segalen University, Michel de Montaigne-Bordeaux 3 University, Montesquieu Bordeaux 4 University, Institute of Political Studies Bordeaux, Bordeaux Institute of Technology, Ecole Nationale Supérieure des Sciences Agronomiques de Bordeaux Aquitaine, Ecole Nationale Supérieure d' Architecture et de Paysage de Bordeaux	○	○	
	Université de Grenoble (Université Joseph Fourier, Université Pierre Mendès France, Université Stendhal, Université de Savoie, Institut National Polytechnique de Grenoble, Institut d' Etudes Politiques de Grenoble)		○	
	Université de Strasbourg (Former Strasbourg Consortium; Université Louis-Pasteur, Université Marc Bloch, Université Robert Schuman)		○	
	Université d' aix-Marseille (former Université d' aix-Marseille 1 or Université de Provence)	○	○	
	Institut national des langues et civilisations orientales (INALCO)	○	○	
	Ecole Normale Supérieure de Cachan	○	○	
	Ecole Supérieure d' Electricité	○	○	
	Ecole Nationale Supérieure de Techniques Avancées	○	○	
	Ecole Polytechnique	○	○	
	Belgium	Université catholique de Louvain	○	○
		Catholic University of Leuven	○	○
	Russia	Sakhalin State University	○	○
		Saint-Petersburg State University	○	○
	NORTH AMERICA	University of Alabama at Birmingham	○	○
University of Hawaii at Manoa		○	○	
University of Washington			○	
Princeton University (*1)			○	
Rice University			○	
Duke University (*2)			○	
University of Wisconsin-Madison			○	
Cornell University		○	○	
Berea College			○	
Yale University (*2)			○	
Grove City College			○	
Kenyon College			○	
The University of Georgia		○	○	
University of California, Davis		○	○	
University of California, Los Angeles		○	○	
University of Michigan		○	○	
University of Massachusetts Amherst		○	○	
San Jose State University	○	○		
Arizona State University		○		
Canada	University of Toronto	○	○	
	Queen's University	○	○	
SOUTH AMERICA	Chile	○	○	
	Pontificia Universidad Católica de Chile	○	○	
	Brazil	○	○	
	The Federal University of Rio de Janeiro	○	○	
Mexico	Universidade de Sao Paulo	○	○	
	Guadalajara Autonomous University	○	○	
OCEANIA	Mexico	○	○	
	Australia	○	○	
	The University of Queensland	○	○	
OTHERS	United Nations organizations	○	○	
	The United Nations University-Institute of Advanced Studies	○	○	
	The Australian National University	○	○	
total: 26 countries / regions, 136 institutions		26 countries / regions, 115 institutions	24 countries / regions, 110 institutions	

(*1) Application, matriculation and tuition fees are not waived.
(*2) Only application and matriculation fees are waived.

Bridging Japan and Korea

Country	Institution	Date of Conclusion
Korea	Pusan National University	Apr.16,2013

Consortium

Collaboration	Institution	Date of Conclusion
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University Consortium between Fukuoka-Pusan	Kyushu University, Kyushu Institute of Technology, Kurume University, Seinan Gakuin University, Chikushi Jogakuen University, Nakamura Gakuen University, The Japanese Red Cross Kyushu International College of Nursing, Fukuoka University, Fukuoka University of Education, Fukuoka University of Economics, Fukuoka International University, Fukuoka Dental College, Fukuoka Woman's University, Pusan National University, Dongseo University, Dong-A University, Pusan University of Foreign Studies, Hosin University, Kyungsoong University, Dong-Eui University, Pukyong National University, Busan National University of Education, Korea Maritime University, Youngsan University	Sep.25, 2008
	Research Center for Korean Studies, Kyushu University, Institute of Korean Culture, Korea University; Center for Korean Studies, Graduate School of International Studies, Seoul National University; Korea Institute, Yonsei University; Center for Korean Studies, University of California, Los Angeles; East Asian Languages and Civilizations Department, Harvard University; Center for Korean Studies, University of Hawaii at Manoa; Centre of Korean Studies, School of Oriental and African Studies (SOAS), University of London; Research Center for Korean Studies, Kyushu University; Center for Korean Studies, Peking University; Center for Korean Studies, Fudan University; Centre for Korean Research, University of British Columbia; Center for Korean Studies, Australian National University	Oct. 10, 2006

World Korean Studies Consortium	Faculty of Mathematics, Kyushu University, Centre National de la Recherche Scientifique (CNRS), Université de la Méditerranée Aix-Marseille II, Université de Nice Sophia Antipolis, Université de Paris Diderot Paris 7, Université Pierre et Marie Curie Paris 6, Université de Strasbourg 1, Hokkaido University, Kagoshima University, Tokyo University of Science, Vietnam Academy of Science and Technology	Sep. 5, 2011
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GDRI "France-Japan-Vietnam Network in Singularity Theory"		
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Associated International Laboratory (LIA)

Collaboration	Institution	Date of Conclusion
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Research on Magnetic Fusion	Kyushu University, French National Center for Scientific Research, Université d'aix-Marseille (former Université d'aix-Marseille 1 or Université de Provence), National Institute for Fusion Science, Osaka University	Oct.22, 2007
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Cooperation with Governmental Agencies

Country	Institution	Date of Conclusion
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Nepal	Ministry of Science and Technology	Feb. 9, 2010
Cambodia	Forest Administration of Cambodia	Nov. 11, 2010
	General Directorate of Rubber	Nov. 11, 2010

Double Degree Agreements

Region/Country	Institution	Faculty of Kyushu University	Date of Conclusion
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China	School of Economics, Renmin University of China	Graduated School of Economics	Sep. 5, 2008
Sweeden	The Faculty of Engineering (LTH), Lund University	Graduate School of Engineering	Jun. 30, 2010
Belgium	The Interfaculty Centre for European Studies, Katholieke Universiteit Leuven	Graduate School of Law	Jul. 20, 2012
China / Korea	Graduate School, Shanghai Jiao Tong University / College of Engineering, Pusan National University	Interdisciplinary Graduate School of Engineering Sciences	Feb. 18, 2013

NUMBER OF INTERNATIONAL STUDENTS

(As of November 1, 2013)

Countries of Regions	Graduate School / Faculty / Institute																				TOTAL	Students with national scholarships						
	Letters	Education	Law	Economics	Sciences	Medicine/Medical Sciences	Dentistry/Dental Science	Pharmaceutical Sciences	Engineering	Design	Agriculture/Bioresource and Bioenvironmental Sciences	The 21st	Languages and Cultures	Graduate School of Social and Cultural Studies	Graduate School of Human Environment Studies	Graduate School of Mathematics	Graduate School of Systems Life Sciences	Graduate School of Information Science and Electrical Engineering	Interdisciplinary Graduate School of Engineering Sciences	Graduate School of Integrated Frontier Sciences			Medical Institute of Bioregulation	Research Institute for Applied Mechanics	Institute for Materials Chemistry and Engineering	Computing and Communications Center	The International Student Center	
India				2	1	2			9								1	1								13	6	
Indonesia							5	6	52	3	14						2	6	3	2	9	6				1	112	25
Korea	30	1	11	4	11	3	5		61	15	22						21	14	2	2	9	22	7			15	255	36
Cambodia			2	1					3		11																18	8
Singapore			1	1					1	1	1															2	6	2
Sri Lanka									1	1	1						2										5	3
Thailand			8	2				2	8	1	15						1	1	2	1						3	46	16
Taiwan	2			4					3	7	4						6	2	2	1		2	3			3	39	
China	45	5	21	115	22	31	17	20	191	134	85						122	95	12	31	115	47	57	1		10	1,176	54
Nepal				2	1				1	1	1																6	1
Pakistan																					1	1					3	2
Bangladesh			4		1				6		6								1	3	5						26	15
Philippines			1		2	1			2		6				2										2	16	10	
Bhutan																					1						1	1
Brunei				1																							1	
Vietnam			2	4		1	1		8		27						3							1		1	48	17
Malaysia			1	1	1	1	2	1	33	2	1							2	1	1	7	11				1	66	10
Myanmar			1						3		11						1										16	11
Mongolian			5	2		3			3		1						2						1				17	4
Laos			1	1					1		6																11	6
Afghanistan			1						10		3						1										15	
Yemen								1																			1	1
Iraq														1													1	1
Iran									1		1									1							3	2
Oman									1																		1	
Syria					1	1	1				1								1								5	4
Turkey			2																								2	1
Bahrain																					1						1	1
Palestine																					1						1	1
Iceland			2																								2	1
United Kingdom	2								1																	6	9	2
Italy																										1	1	1
Uzbekistan				1					2																		3	2
Austria																										1	1	1
Nederland			1							1																1	3	2
Kazakhstan														1													1	
Sweden									1										1	1						3	6	
Spain	1																							1			2	1
Slovak	1													1													2	2
Slovenija																										1	1	1
Czech									1																	1	2	1
Danmark							1																			1	1	
Germany	3	1	2	1					2	3																4	16	2
Norway									1																		1	
Hungary									1											1							1	1
France			3						2	4				1												12	22	
Bulgaria									1																		1	1
Belgium	1													1												1	3	1
Poland														1													1	1
Portugal															1											1	2	
Latvia														1													1	1
Lithuania															1												1	
Russia			1																								1	
Algeria									1																		2	1
Uganda											1																1	1
Egypt	1				3	1	1	2	5		4			1	1				1	7	4						31	7

Countries of Regions	Graduate School / Faculty / Institute																		TOTAL	Students with national scholarships								
	Letters	Education	Law	Economics	Sciences	Medicine/Medical Sciences	Dentistry/Dental Science	Pharmaceutical Sciences	Engineering	Design	Agriculture/Bioresource and Bioenvironmental Sciences	The 21st	Languages and Cultures	Graduate School of Social and Cultural Studies	Graduate School of Human Environment Studies	Graduate School of Mathematics	Graduate School of Systems Life Sciences	Graduate School of Information Science and Electrical Engineering			Interdisciplinary Graduate School of Engineering Sciences	Graduate School of Integrated Frontier Sciences	Medical Institute of Bioregulation	Research Institute for Applied Mechanics	Institute for Materials Chemistry and Engineering	Computing and Communications Center	The International Student Center	
AFRICA	Kenya																1									1	1	
	Comoros													1													1	1
	Congo			1				1																			2	2
	Sierra Leone								1																		1	1
	Nigeria				1			1	3									1									6	3
	Malawi										1																1	1
	Mauritania				1																						1	1
	Morocco				1				1																		2	2
Rwanda										1																1	1	
NORTH AMERICA	U.S.A	3		2	3				2		2			1			1	1								9	24	5
	Canada										1														1	2	1	
CENTRAL & SOUTH AMERICA	Argentina	1				1																					2	2
	El Salvador																	1									1	1
	Colombia								1																		1	1
	Chile			1									1												2	4	3	
	Paraguay			1																							1	1
	Brazil	1							1	3	2		1				2										10	7
	Peru					2					2																4	3
	Bolivia								1																		1	1
Mexico				1				1		1					2	1			1							7	4	
OCEANIA	Australia												1				1								3	5	2	
	Papua New Guinea																1										1	1
TOTAL(78)	91	7	77	148	44	50	33	30	424	177	232	0	0	176	124	24	45	164	104	71	2	0	0	0	85	2,108	310	

Undergraduate	11	5	1	10	21	6	7	4	82	10	10																	167	11
International Program (Bachelor)									55		22																	77	14
Graduate (Master)	18		9	47	6	3		1	48	69	42		62	38	5		63	12	34									457	25
International Program (Master)	12			12	2	2		10	18				7	3	4			18	4									92	11
Special Course in English (Master)			35								48																	83	26
YLP (Master)			9																									9	9
Professional Graduate School				6										2														8	6
Graduate (Doctor)	21		8	14	8	5	9	6	47	39	31		50	30	9	30	43	43	9									402	68
International Program (Doctor)				12	3	25	14	7	66	5			4	11	4	9			1									161	25
Special Course in English (Doctor)			6						55		42							20										123	66
Research Student	10		2	32	3	8	3	2	43	47	24		46	38	2	5	54	7	23	2				1			352	29	
Special Student Auditor											1																	1	
Special Research Student	1				1	1			3		5		1			1	4	3										20	
Special Auditing Student	18	2	7	15					7	7	7		6	2				1										72	
Non-degree Student																													
Japanese Intensive Course Student																									2	2	2		
JLCC																									26	26	10		
JTW																									48	48			
Preliminary Course for Japan-Korea Joint Exchange Program																								8	8	8			
TOTAL	91	7	77	148	44	50	33	30	424	177	232	0	0	176	124	24	45	164	104	71	2	0	0	0	85	2,108	310		

DEGREE PROGRAMS IN ENGLISH

In 2009, Kyushu University was chosen as one of the 13 venues for the “Global 30 (G30) Project”. By the time the project comes to a close in 2014, we will have offered in total 63 English-taught programs at both

undergraduate and graduate levels, giving international students a vast range of options without any parallel in Japan.

UNDERGRADUATE:

UNDERGRADUATE SCHOOL	PROGRAM	DEGREE OFFERED
School of Agriculture	International Undergraduate Program, Department of Bioresource and Bioenvironment	Bachelor of Science
School of Engineering	International Undergraduate Program in Applied Chemistry	Bachelor of Engineering
	International Undergraduate Program in Civil Engineering	
	International Undergraduate Program in Mechanical Engineering	
	International Undergraduate Program in Aerospace Engineering	

GRADUATE:

GRADUATE SCHOOL	PROGRAM	DEGREE OFFERED M=Master's Degree D=Doctoral Degree
Graduate School of Humanities	International Master's Program in Japanese Humanities	M
Graduate School of Integrated Sciences for Global Society	International Master's/Doctoral Program in Integrated Science for Global Society	M/D
Graduate School of Human-Environment Studies	International Master's/Doctoral Course in Sustainable Architecture and Urban Systems	M/D
Graduate School of Law	LL. D. Program	D
	IEBL Program (LL. M. in International Economic and Business Law)	M
	BiP (Bilingual Master's Program in Laws LL. M.)	M
	YLP (Young Leader's Program LL. M.)	M
Graduate School of Economics	CSPA Program (Master of Laws in Comparative Studies of Politics and Administration in Asia)	M
	International Master's/Doctoral Program in Economics (IMPE/IDPE)	M/D
Graduate School of Sciences	International Master's/Doctoral Program in the Graduate School of Sciences	M/D
Graduate School of Mathematics	International Master's/Doctoral Program in Mathematics	M/D
Graduate School of Systems Life Sciences	International Doctoral Program in Systems Life Sciences	M/D
Graduate School of Medical Sciences	International Doctoral Program in Medical Science	D
	International Master's/Doctoral Program in Asia Health Sciences	M/D
	International Doctoral Program in Health Sciences	D
Graduate School of Dental Science	International Doctoral Program in Dental Science	D
Graduate School of Pharmaceutical Sciences	International Course in the Graduate School of Pharmaceutical Sciences	M/D
Graduate School of Engineering	International Master's/Doctoral Program in Applied Chemistry	M/D

GRADUATE SCHOOL	PROGRAM	DEGREE OFFERED M=Master's Degree D=Doctoral Degree
Graduate School of Engineering	International Master's/Doctoral Program in Materials Science and Engineering	M/D
	International Master's/Doctoral Program in Chemical Engineering	M/D
	International Master's/Doctoral Program in Civil and Structural Engineering	M/D
	International Master's/Doctoral Program in Urban and Environmental Engineering	M/D
	International Master's/Doctoral Program in Maritime Engineering	M/D
	International Master's/Doctoral Program in Earth Resources Engineering	M/D
	International Master's/Doctoral Program in Applied Quantum Physics and Nuclear Engineering	M/D
	International Master's/Doctoral Program in Mechanical Engineering	M/D
	International Master's/Doctoral Program in Hydrogen Energy Systems	M/D
	International Master's/Doctoral Program in Aeronautics and Astronautics	M/D
Graduate School of Design	Doctoral Program of Human Science International Course	D
Graduate School of Information Science and Electrical Engineering	International Doctoral Program in Information Science and Electrical Engineering	D
Interdisciplinary Graduate School of Engineering Sciences	International Master's Program in Applied Science for Electronics and Materials	M
	International Master's Program in Molecular and Material Sciences	M
	International Master's Program in Advanced Energy Engineering Science	M
	International Master's Program in Energy and Environmental Engineering	M
Graduate School of Bioresource and Bioenvironmental Sciences	International Master's Program in Earth System Science and Technology	M
	Educational Program for International Research Students Aimed to Develop Environmentally Balanced Approaches to the Application of Science and Technology	D
Graduate School of Integrated Frontier Sciences	International Development Research Course	M/D
Graduate School of Integrated Frontier Sciences	International Master's/Doctoral Program in Automotive Science	M/D

CAMPUS LIFE

Housing

Kyushu University has seven dormitories for foreign students and researchers. Also, new dormitory and International Village will be open on Ito Campus from October 2014.



Dormitory 1&2



New International Student Orientation



Dormitory Support

Name	Residents	Place	Rooms
International Student House	Foreign students	Higashi-ku, Fukuoka	170 units for singles (30 units from Oct 2014) 39 units for married couples 34 units for families
International Residence	Foreign researchers	Higashi-ku, Fukuoka	18 units for singles 7 units for married couples 2 units for families
IJIRI International House	Foreign students and researchers	Minami-ku, Fukuoka	for students: 59 units for singles for researchers: 6 units for singles
Foreign Visitor's Quarters	Foreign researchers	Higashi-ku, Fukuoka (on Maidashi Campus)	14 units for singles 3 units for married couples 2 units for families
DORMITORY 1	Foreign students	Nishi-ku, Fukuoka (on Ito Campus)	126 units for singles
DORMITORY 2	Foreign students	Nishi-ku, Fukuoka (on Ito Campus)	38 units for singles 20 units for 2 students 6 units for married couples
Ito Guest House	Foreign researchers	Nishi-ku, Fukuoka (on Ito Campus)	27 units for singles 4 units for married couples 2 units for families
DORMITORY 3* (open from Oct.2014)	Foreign students	Nishi-ku, Fukuoka (on Ito Campus)	34 shared room for 4 singles (shared by domestic and foreign students)(tentative)
International Village* (open from Oct.2014)	Foreign students	Nishi-ku, Fukuoka (on Ito Campus)	About 300 units for singles 30 units for married couples (tentative)

*The information of DORMITORY 3 and International Village is as of Dec.2013, and the contents may change.

Students who are newly coming to Fukuoka city can live in Kyushu University dormitories so as to get used to living in their new environment. The tenancy is basically up to for six months or one year. After this period of time, students must leave the dormitory and find another place to live.

Almost all apartment leases in Japan require a guarantor (Rentai Hoshounin), a person who co-signs the lease to share liability (jointly) with the lessee. Generally, Japanese students ask a family member (parents, sibling, etc.) to become their guarantor. Since international students have trouble finding a guarantor in Japan, Kyushu University will act as a student's guarantor by using the Housing Guarantor System and help students with the housing contract procedures.

This Housing Guarantor System can be used to cover incidents such as accidental fire, gas and water leak in a student's room. This system is reassuring and useful for students and easier for Kyushu University to help assist students with housing problems.

For more information:

<http://www.isc.kyushu-u.ac.jp/supportcenter/en/housing>

Tuition and Fees

JPY

	Tuition	Enrollment Fee	Application Fee
Undergraduates	535,800/year	282,000	17,000
Graduates	535,800/year	282,000	30,000
Research Students Special Students	29,700/month	84,600	9,800
Auditors	14,800/credit	28,200	9,800

As of 2013

Scholarship

■ Japanese Government Scholarship:

The Monbukagakusho Scholarship program was established to promote an acceptance of international



KUFSA Retreat



One Day Trip Nagasaki

students from all over the world.

You can be considered for a Monbukagakusho Scholarship on any of three ways:

- (1) By embassy recommendation,
- (2) By Kyushu University recommendation (overseas applications), and
- (3) through Kyushu University nomination (domestic applications by those enrolled at Kyushu Univ.)

■ Other Scholarships

Kyushu University also offers the following scholarships.

Name of Scholarship	Application Deadline	Grantees (Graduate)	Grantees (Undergraduate)	Monthly Stipend (¥)
JASSO (Gakushu-shoreihi)	Mid of April/ End of September	143	69	48,000 / 65,000 (Undergraduate) (Graduate)
Fukuoka Overseas Student future development scholarship	Mid of April	2	2	25,000-41,666
Fukuoka pref. SATOOYA Scholarship	Mid of May	12	0	20,000
Fukuoka City Rainbow Scholarship	Mid of June	42	5	20,000
				As of 2013

For more information about scholarship, please visit our web site:
<http://www.isc.kyushu-u.ac.jp/intlweb-e/admission/index.htm>

Scholarship information, including the ones which can be applied for directly by the students is listed on the following JASSO website.

http://www.jasso.go.jp/study_j/scholarships_e.html

Japanese Class (Preliminary courses)

■ Japanese Intensive Course

This is a six-month program of intensive Japanese language study, prepares government-sponsored international students for matriculation, upon completion of the Course, to graduate school at Kyushu University or one of several other institutions in the northern Kyushu area.

For more information:

<http://www.isc.kyushu-u.ac.jp/center/f/preliminary.html>

Support Center

In May 2009, Kyushu University established an International Student and Researcher Support Center in order to assist international students/researchers to begin their daily lives and academic activities in Japan smoothly.

International Student and Researcher Support Center at each campus provides the support services to new and enrolled international students and researchers as below.

The Support Center is trying to develop and improve its support system to deal with an increasingly wide range of procedures to accept more students and researchers from abroad.

- Supporting for Application procedures for "Certificate of Eligibility (CoE)"
- Pickup service (Shuttle bus service)
- Assistance for the daily life procedures
- Providing housing information / Residential assistance
- Translation of Japanese documents into English or English documents into Japanese
- Interpretation over counter
- Cooperation with international Students Support Team
- Other assistance and providing information regarding the daily life upon request



Sport festival



Talent hunt



Hakata Dontaku Festival

Please refer to the web page below for the further information:
<http://www.isc.kyushu-u.ac.jp/supportcenter/en/>

Health Care

Kyushu University International Students can use Emergency Secure Plan (ESP), which is emergency services including medical assistance and expense insurance for secure life.

If international students need medical attention for the illness or accident etc., ESP can provide...

- Reference to an appropriate, nearby medical facility
- Over phone interpretation at a medical facility via three-way conference call (English, Chinese and Japanese)

When the international students reach the emergency, Kyushu University will arrange the contact to international students' family (or like to the rescuers), and also transportation from home country to medical institutions in coverage.

Therefore, international students are required to join the "ESP" and must pay the membership fee 1,000yen/year.

For more information:

<http://www.kyushu-u.ac.jp/university/rule/index.htm>



Hakata Dontaku Festival

LIFE

Kyushu University international students are from more than 80 countries and regions around the world. They spend university life with sharing of different cultures and languages.

There are various kind of dishes on the menu at cafeteria, and also co-op shops where to buy stationery supplies and light meal on each campus. At Hakozaki campus and Ito campus we have halal food shops.

International students and Japanese students have a variety of events and opportunities, for instance, they can foster cross-cultural understanding through tutor system.

International students can exchange each culture and make a lot of memory with Japanese students.

There is an association organized by Kyushu University international students. The association offers various kinds of events such as sport festivals, one day trips and performance tournaments. They contribute to development of a healthy environment and maintenance of harmony among daily life, study and recreation international students. These activities create a comfortable and pleasant environment for international students to make their stay and studies more fruitful. Moreover it promotes cooperation, collaboration and friendship not only among International students but also with Japanese students.



Potluck Party

For more information:-International Affairs Department

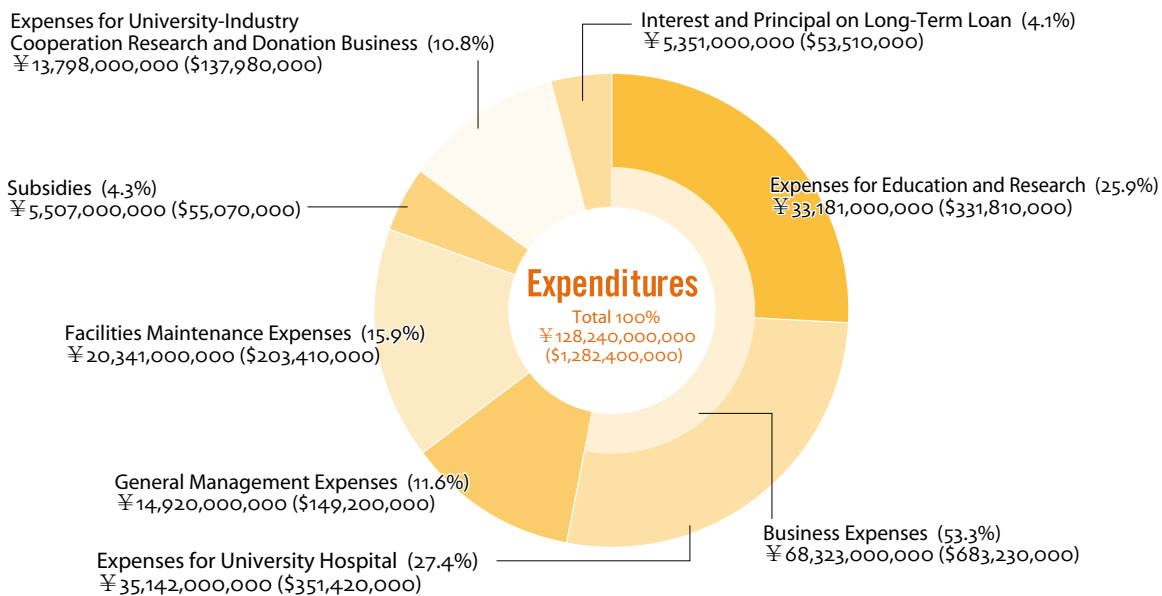
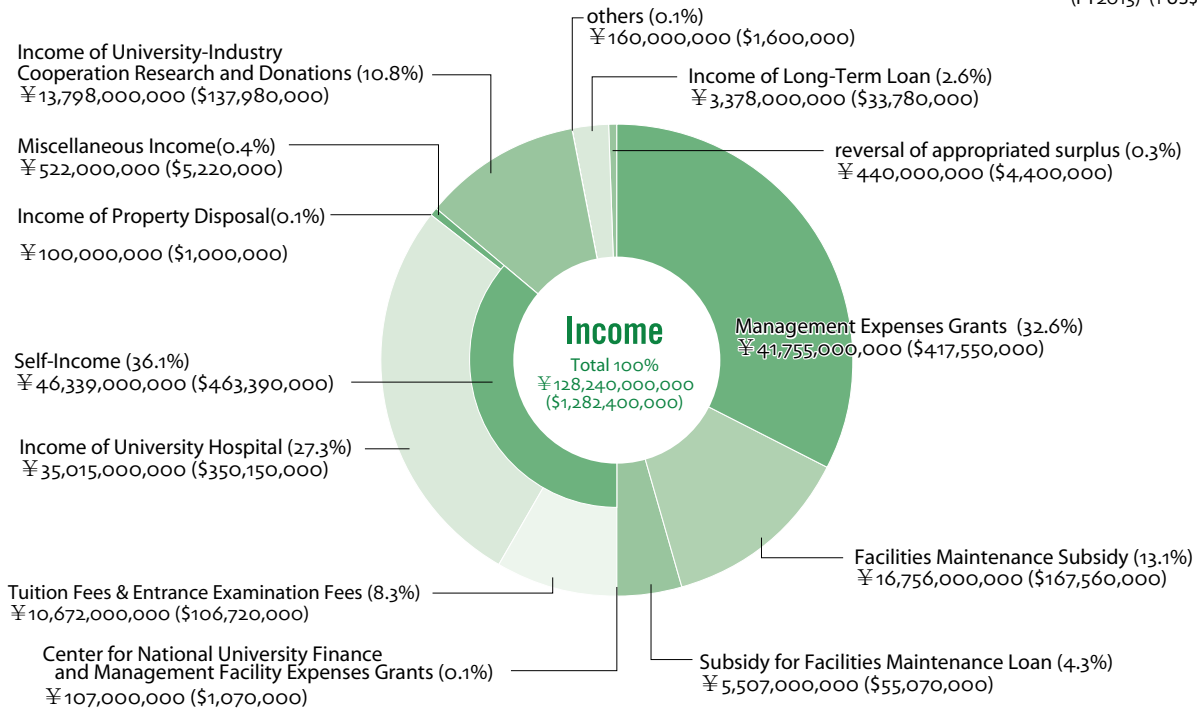
<http://www.isc.kyushu-u.ac.jp/intlweb/en>

Approximate Living Cost per month

	Cost
Housing and Utilities	¥15,000~50,000
Food	¥30,000
Personal Expenses	¥20,000
Public Transportation	¥10,000
Books and Supplies	¥5,000
National Health Insurance	¥2,000
Emergency Secure Plan(ESP)	¥1,000/per year
Total	¥80,000~115,000

UNIVERSITY BUDGET

(FY2013) (1 US\$=¥100)



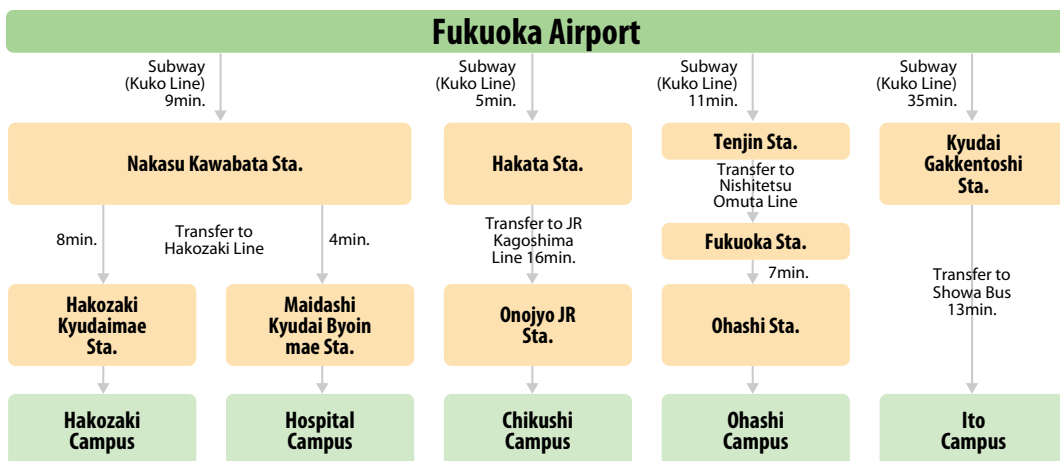
OVERSEAS OFFICES (10 offices+2 branch offices)



LOCATION AND ACCESS



- ① Hakoziaki Campus
- ② Hospital Campus
- ③ Chikushi Campus
- ④ Ohashi Campus
- ⑤ Ito Campus
- ⑥ Beppu Campus (Kyushu University Beppu Hospital)
- ⑦ University Farm
- ⑧ Institute of Seismology and Volcanology
- ⑨ Amakusa Marine Biological Laboratory
- ⑩ Kuju Agricultural Research Center
- ⑪ Shiiba Research Forest
- ⑫ Ibusuki Experimental Station
- ⑬ Ashoro Research Forest
- ⑭ Nishijin Plaza
- ⑮ International House
- ⑯ Tokyo Office
- ⑰ Osaka Office
- ⑱ Hakata Office
- ⑲ Industry-University-Government Collaboration Innovation Plaza



Contact us:

International Affairs Department

-International Student Exchange:

intlrkoryu@jimu.kyushu-u.ac.jp

-Academic Cooperation:

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-General Affairs:

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-International Legal Matter:

legal@qilo.kyushu-u.ac.jp

-Export Control:

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Industry-University-Government Collaboration Management Center

-University-Industry-Government Collaboration

-Technology Transfer & Licensing

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Edited by:
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