

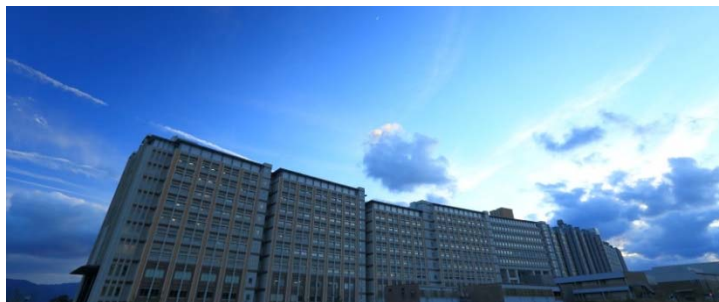


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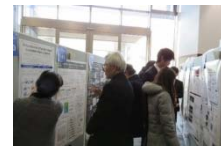
Website: <https://www.kyushu-u.ac.jp/en/>



Research World-Class Research Drawing Attention across Broad Sectors

■ Platform of Inter/Transdisciplinary Energy Research <http://q-pit.kyushu-u.ac.jp/en/>

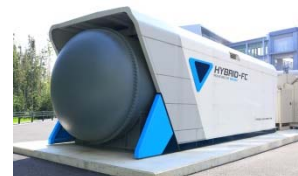
To present a concrete vision of “new energy for a society in the latter half of the 21st century and at the dawn of the 22nd century,” this institution will play the leading role in promoting technological, industrial and social paradigm shifts by developing an energy system of a future society through the fusion of such research fields as primary energy (natural energy and hydrocarbon fuels), secondary energy (e.g. hydrogen) and policy recommendation. The institution will promote this initiative as a university-wide organization bringing together energy-related researchers from both the natural sciences and humanities fields.



■ Low-Carbon Society and to Tackle the Issues of Climate Change Next-Generation Fuel Cell Research Center (NEXT-FC)

Selected for 2011 METI Innovation Center Establishment Assistance Program.

The center’s goal is the realization and large-scale adoption of next-generation fuel cells, and in particular, solid oxide fuel cells (SOFCs). SOFCs are clean, highly efficient power generators, and they have attracted attention as a key solution to the current energy challenges in the face of climate change. The research center is working closely with industry, academia and government to overcome a variety of issues, such as increasing durability and reliability, improving performance, and accelerated uptake.



■ Creation of a Sustainable and Environmentally-Friendly Society

International Institute for Carbon-Neutral Energy Research (I²CNER) <http://i2cner.kyushu-u.ac.jp/en/>

I²CNER was inaugurated as a World Premier International Research Center Initiative (WPI) of MEXT in 2010.

I²CNER's mission is to contribute to the creation of a sustainable and environmentally-friendly society by conducting fundamental research for the advancement of low carbon emission and cost effective energy systems and improvement of energy efficiency. The array of technologies that I²CNER's research aims to enable includes Solid Oxide Fuel Cells, polymer membrane based fuel cells, biomimetic and other novel catalyst concepts, production, storage, and utilization of hydrogen as a fuel, and the underlying science of CO₂ storage or the conversion of CO₂ to a useful product.



■ Groundbreaking organic materials and devices for creating future electronics

Center for Organic Photonics and Electronics Research (OPERA)

Using thin layers of carbon-containing molecules as semiconductors, organic electronics make possible LEDs, transistors, and solar cells that can be thin and flexible. Through the Adachi Molecular Exciton Engineering Project, OPERA is creating new organic molecules and devices to control the energy (called “excitons”) in organic semiconductors and unlock new functions and applications. This work will advance the realization of organic semiconductor lasers, high-performance organic LEDs, energy storage devices, and solar cells, and, as the next step, biocompatible devices.



■ World’s First Taste Sensor to Detect and Identify Flavors

Research and Development Center for Taste and Odor Sensing <http://www.rdctos.kyushu-u.ac.jp/e/index.html>

The center has succeeded in developing the world’s first sensor to detect and identify different tastes using lipid polymer membranes. The sensor can identify and evaluate tastes by means of global selectivity: it classifies the enormous number of flavorful substances into the five basic taste categories of saltiness, sourness, bitterness, sweetness and umami. The taste sensor has been commercialized by Intelligent Sensor Technology, Inc. and is used by food product manufacturers and research institutes among others. The university is also involved in R&D into aroma sensors.



■ Global Center of Education and Research for Transomics Medicine

Medical Institute of Bioregulation http://www.bioreg.kyushu-u.ac.jp/index_e.html

The Medical Institute of Bioregulation has the aim to facilitate understanding of the essential regulatory mechanisms involved in human biology, at the cellular and molecular levels, especially focusing on the host defense system, which is essential to maintain the homeostasis of the human body. We sincerely hope that our research activities will eventually contribute to the understanding of the complex pathological processes and the development of therapies to cure intractable diseases. In 2013, the Research Center for Transomics Medicine was established to create a global research center for medicine with multilayer-omics approaches.

Education Broad-Based Learning and Deep Specialization: Quality Education for True Leadership

■KIKAN Education for Generating Questions and Creating New Knowledge

Faculty of Arts and Science <http://www.artsci.kyushu-u.ac.jp/>

Through KIKAN education, students learn fundamental educational skills, such as "how to look, think, and learn", which are the basics for new knowledge acquisition and problem solving. Universities require students to pose their own questions and pursue truth via independent learning. In order for students to acquire such learning, they cannot stop at simply accumulating the important knowledge and skills that form the foundation of learning, but need to utilize knowledge already gained and compare it with experience to creatively and critically pose and examine the questions "Why?" and "Is there another possibility?" Students must make a mental habit of learning by "questioning" to reconsider an issue from a new perspective and continuously challenge people, objects and events of the world with an active intellectual curiosity. Doing so creates the foundation to proactively and independently persevere to seek new knowledge and possibility, without fear, in any issue or situation.



■The 21st Century Program—An Interdisciplinary Undergraduate Program That Transcends Conventional Demarcations

The 21st Century Program <http://www.21cp.kyushu-u.ac.jp/english/english.html>

The program is an interdisciplinary curriculum geared to shaping capable people who will lead through this century. The aim is to foster "highly specialized generalists" capable of identifying problems, defining issues and generating solutions at an advanced level and from a broad frame of reference for the various challenges facing society and humankind in general in the 21st century.



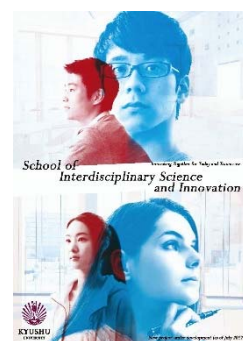
■School of Interdisciplinary Science and Innovation

Broad-Based Learning and Deep Specialization : Quality Education for True Leadership

<http://www.kyushu-u.ac.jp/en/faculty/undergraduate/kyosogakubu>

Kyushu University is planning to open the school of Interdisciplinary Science and Innovation, with a capacity of 105 undergraduate students, in April 2018.

The new school will cultivate individuals with a global mindset, capable of identifying issues for themselves and working with others to create solutions or innovation, using global issues and challenges as themes for learning.



■Unique Program for Greater Challenge and Creativity

Robert T. Huang Entrepreneurship Center (QREC) <http://qrec.kyushu-u.ac.jp/en/>

It provides lectures open for all undergraduate and graduate students of the university on around 30 subjects each year. In addition, QREC supports students' creative activities and fosters future entrepreneurs who are eager to take on challenges to create new values and realize their dreams in various corners of society.



Top Global University

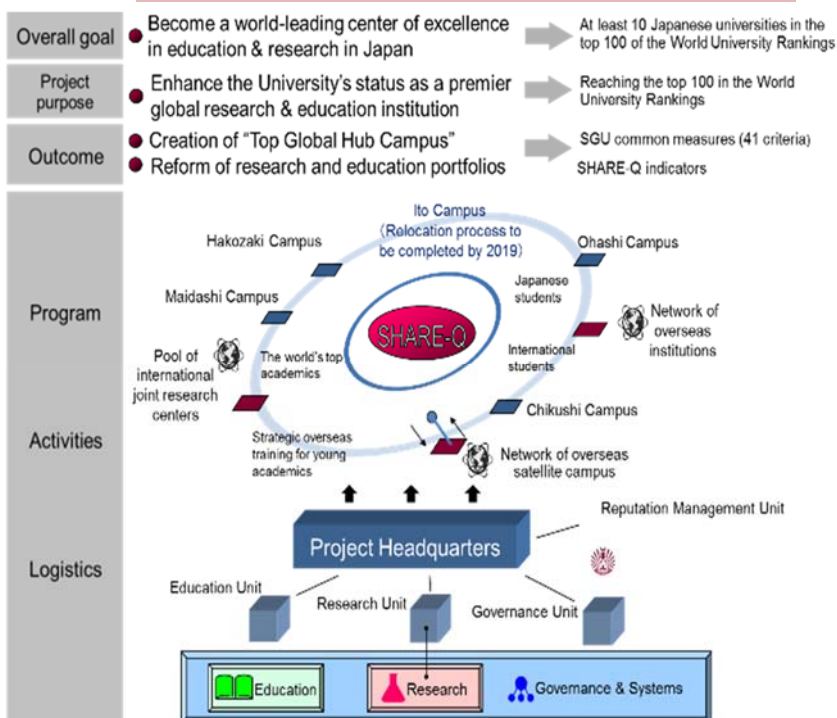
Project

Strategic Hub Area for top-global Research and Education - Kyushu University (SHARE-Q)

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

Kyushu University is a comprehensive national research university aiming to become a top global research and education hub in Kyushu District, Japan. Our recently funded "Super Global University" plan--"SHARE-Q"--is a package of enhancements and reforms in research, education, and governance. It includes efforts to expand international collaborative research, intensify global human resource development, improve University governance, and strengthen institutional public relations. SHARE-Q also supports the establishment of a new undergraduate school as well as steps to augment decision-making efficiency and strategic information delivery. The construction of, and relocation to, a new main campus at Ito--site where SHARE-Q will shape and ensure the University's future--will conclude in 2018.

SHARE-Q : Project Design and Vision



Students

(As of May 1, 2016)

(As of May 1, 2016)

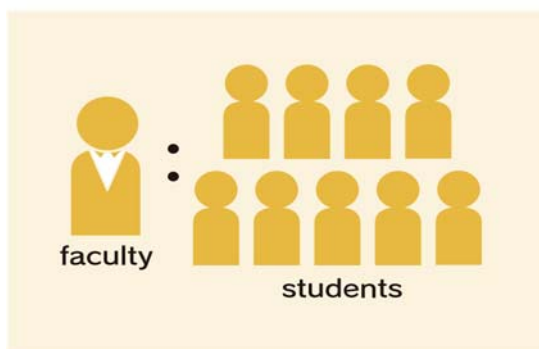
Number of students
(Undergraduate and Graduate total) **18,659**

Number of faculty **2,036**

(including 297 non-Japanese faculty)

9:1 Student-to-Faculty ratio

We can provide education and research individually tailored to each student.



International students **2,089**
Total Student body **18,659**



The main countries and regions of international students

China	1,023
South Korea	260
Indonesia	116
Vietnam	75
Malaysia	54
Egypt	46
Thailand	42
Bangladesh	42
Taiwan	40
France	27
USA	22
Brazil	15
Other Asia	121
Other non-Asia	206

School

(As of May 1, 2016)

School	Enrolled	The male-female Ratio	
		(Male)	(Female)
Total	11,758	72%	28%
School of Letters	718	40%	60%
School of Education	228	37%	63%
School of Law	851	65%	35%
School of Economics	1,079	78%	22%
School of Science	1,253	80%	20%
School of Medicine	1,315	59%	41%
School of Dentistry	336	60%	40%
School of Pharmaceutical Sciences	398	62%	38%
School of Engineering	3,661	91%	9%
School of Design	919	63%	37%
School of Agriculture	1,000	56%	44%
The 21st Century Program	118*	35%	65%

*Note: The number of undergraduate students who are taking 21st Century Program

Funded research funding

(FY 2016)

¥ **10.1**
billion

882 projects

Funded research refers to research conducted on behalf of corporate or other partners who choose us because of the diversity of our researchers and research facilities.

Joint collaborative research

(FY 2016)

¥ **2.6**
billion

791 projects

Joint collaborative research refers to research conducted by teams consisting of our researchers and researchers from corporate or other partners.

Grants-in-Aid for Scientific Research

(FY 2016)

¥ **7.1**
billion

2,221 projects

Grants-in-Aid are competitive research grants provided by the government to fund an original and exploratory research in an effort to advance all levels of scientific research.