2011 »» 2012

Kitakyushu Science and Research Park

北九州学術研究都市

Kitakyushu Foundation for the Advancement of Industry, Science and Technology

FAIS

Kitakyushu Foundation for the Advancement of Industry, Science and Technology (FAIS)

10th ANNIVERSARY KITAKYUSHU SCIENCE AND RESEARCH PARK

About Kitakyushu Science and Research Park

Kitakyushu Science and Research Park (KRSP) opened in April 2001, and aims for the "further development of technology and creation of new industries" and "becoming a center for academic research in Asia" by gathering national, municipal and private universities that specialize in science and engineering into the same campus. The 4 universities (and 1 undergraduate course) already based at the park are engaged in training and research on cutting-edge technologies, especially IT and biotechnology under the common philosophy of KSRP.

Goals for the Kitakyushu Science and Research Park

Utilizing "intelligence" of universities to promote local industries and science

Becoming a center for academic research in Asia

Promoting the creation of new industries and further development of technology

The construction of a cutting-edge industrial city in Asia that creates new technology and enriches lives

Strategic goals of industry and employment in Kitakyushu

Kitakyushu Science and Research Park Project

◎Fundamental policy

Taking advantage of both natural and urban environments, the facility hosts educational and research institutes related to cutting-edge technology, and at the same time provides comfortable residential environment.The science and research park is being developed with the concept of "multi-perspective town planning."

◎Development areas :

West part of Wakamatsu,
Northwest part of Yahatanishi

◎Total area of development : Approximately 335 ha

◎Planned population : 12,000 (Daytime population)
Number of housing unit: 4,000

◎Construction schedule :

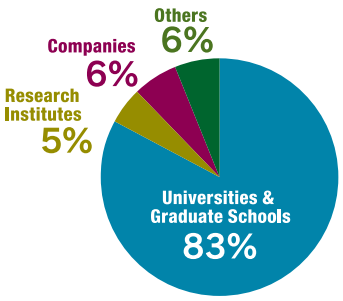
1st Stage Project (Approximately 121 ha)
1995 - 2006 ※Project completed
Developer : Urban Renaissance Agency

2nd Stage Project (Approximately 136 ha)
2002 - 2014
Developer : City of Kitakyushu

3rd Stage Project (Approximately 68 ha)
Under Consideration

River improvement (Approximately 10 ha)

【Scheme of Land Use】



Daytime Population of the Kitakyushu Science and Research Park

(As of May 1, 2011)

Approximately 3,300

2,354 Students (including 525 foreign students)

150 Faculty members
※Only full-time faculty (including 36 from companies)

162 Researchers (including 41 foreign researchers)

Characteristics of Kitakyushu Science and Research Park

Universities and Research Institutes Related to Science, Engineering, and Research Departments of Companies Located on the Same Campus

◎National, municipal, and private universities (1 faculty, 4 graduate schools)
Faculty and Graduate School of Environmental Engineering, the University of Kitakyushu
Graduate School of life Science and Systems Engineering, Kyushu Institute of Technology
Graduate School of Information, Production and Systems, Waseda University
Graduate School of Engineering, Fukuoka University
◎Public and private research institutions (16 research institutes)
◎Companies involved in research and development (54 companies)

Exchange and Collaboration among Researchers, Staff, and Students

◎Joint research and exchange of faculty among participating universities
◎Transferable credits to other universities
◎Operating joint graduate school programs of participating universities within the campus (Joint Graduate School in Car Electronics course)

Common Educational and Research Principles among Universities within the Campus

◎Conducting advanced education and research in the field of cutting-edge science technology
◎Promotion of collaboration between industry and academies
◎Nurturing the spirit to venture
◎Establishing a center for academic research in Asia

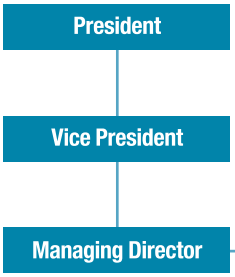
Cooperative Campus Management & Common Use of Facilities

◎The Kitakyushu Science and Research Park steering committee is composed of representatives from universities within the campus, and makes plans for joint endeavors
◎Common use of libraries, information processing facilities, convenient facilities, and others

Operation and management of the Kitakyushu Science and Research Park

Kitakyushu Foundation for the Advancement of Industry, Science and Technology (FAIS)

FAIS Organizational Structure



Campus Administration Center
●Administration and Planning Department
This center carries out the joint operations of the Kitakyushu Science and Research Park. It administers the shared usage of facilities within the KSRP, and promotes partnerships and exchange among the universities participating in the KSRP.

SME Support Center
●SME Support Department
●Business Venture Support Department
This center offers a one-stop service system for small and medium-sized enterprises (SME) and businesses. This center provides research and development support, consultation, and expert dispatching services to support individuals and SMEs who wish to start businesses or innovate and improve their management and technology. It also operates the Intellectual Property Center and the Kitakyushu Telework Center.

Collaboration Coordination Center
●Collaboration Department
●Management Support Department
●Intellectual Property Department (Kitakyushu TLO)
This department coordinates joint research by industry-academies and the transfer of technology through the utilization of the intellectual foundation of universities and research institutes carrying out cutting-edge science technology related research. It also promotes further development of technology and the creation of new industries.

Semiconductor Technology Center
●Human Resources Development Department
●Applied Technologies Department
The center of the electronics industry is semiconductors; the department supports the design and application technologies of semiconductor. It particularly focuses its efforts on the development of human resources, the support of venture enterprises, and the promotion of collaboration between industry and academies.

Car Electronics Center
Car electronics is growing in importance in the automobile industry. This center focuses on the development of the next generation of human resources and promotes research and development of car electronics.

Robotics Development Support Department
This department promotes the development of the robotics industry through the operations of the Kitakyushu Robot Forum and others. It also coordinates activities with emphasis on robotics research, development, demonstration, and commercialization.

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Kitakyushu Foundation
for the Advancement
of Industry, Science and Technology

◎President : Toyoki Kunitake
◎Board of directors :
【Academies】
Kitakyushu Science and Research Park (KSRP)
Presidents of participating universities Presidents of Science and Technology universities in Kitakyushu City
【Industry】
The Chamber of commerce and industry, and other economic organizations
【Administration】
Kitakyushu City, Fukuoka Prefecture

Research Institute

The promotion of the excellent joint research facilities of the KSRP attracts not only universities, but also companies related to semiconductor design and research institutes to the campus. In addition, 12 venture companies are established by utilizing research *seeds of universities in the KSRP.

As of August 1, 2011

	Name of Research Institution	Location	Outline
1	**Information, Production and Systems Research Center, Waseda University**	Information, Production and Systems Research Center, Waseda University	This center performs worldwide top-class research in the field of Car Electronics and system LSI, and the development of human resources.
2	**Fukuoka Research Center for Recycling Systems**	Collaboration Center	Industries, academies, governments, and citizens work together to create a resource-reusing society, conduct research and development on the environment, recycling technology, and social systems, and circulate this information.
3	**Academic, Industrial and Governmental Liaison Center, Fukuoka University Kitakyushu industry-academia Cooperation Promotion Office**	Collaboration Center	This center promotes the development of environmental industries through collaboration among academy, industry, and government by matching seeds with the needs of the business community and policies of local government.
4	**Hiroshima Institute of Technology & Joint Research Laboratory**	Business Venture Support Center	This center takes advantage of applied fields of car electronics, electronic control, electronic devices for health care and integrated circuit into the research and education. It also offers education related to semiconductor design and the development of consulting systems.
5	**Cranfield University (UK) at Kitakyushu, Kitakyushu Joint Research Center**	Business Venture Support Center	Cranfield is one of Europe's leading universities in joint research with industry, and boasts world-leading expertise in aeronautical engineering. At this center the university conducts joint research with other KSRP universities in areas such as environment and biotechnology.
6	**Kitakyushu Research Laboratory, Department of Computer Science and Technology, Tsinghua University (China)**	Collaboration Center	This facility conducts researches on cutting-edge LSI (large-scale integration) technology.
7	**Kitakyushu Research Laboratory, Shanghai Jiao Tong University (China)**	Information, Production and Systems Research Center, Waseda University	This facility conducts researches on ubiquitous information processing prior technology, control system and industrial robots, ambient SoC technology and others.
8	**Kitakyushu Research Laboratory, School of Electronics Engineering and Computer Science, Peking University (China)**	Information, Production and Systems Research Center, Waseda University	This center conducts international joint research on ultra high-speed human identification technology and security applications.
9	**Kyushu Institute of Technology, Research Center for Advanced Eco-fitting Technology**	Kyushu Institute of Technology	This center performs research and development, and education oriented to “eco-fitting technology” on the purpose of improving the additional values of the technology.
10	**The University of Kitakyushu Technology Development Center group**	The University of Kitakyushu and Technology Development and Exchange Center	This center aims to promote high level of technology development and its commercialization at the university of Kitakyushu and KSRP. It also established each center charged with development of promising industrial seeds and promotes the technology and science development policy of the City of Kitakyushu, which is the realization of "knowledge-based manufacturing town" and "the establishment of next-generation social system" ・International Collaboration Center for Environmental Research and Development ・Research and Development Center of Fire and Environmental Safety ・Biomass Research Center ・Biomedical Material Development Center ・Center of Low Carbon Technology for Building and City
11	**JAHNG Research Laboratory, Kyushu Institute of Technology and Health Resources Management Laboratory (DJ & HRM Laboratory)**	Kyushu Institute of Technology	This lab operates research activities for education, behavior modification and knowledge of health resource in home, school and workplace.
12	**Hibikino Branch of Arizono Laboratory, Prefectural University of Kumamoto**	Business Venture Support Center	This lab operates research on application of comprehensive risk assessment of environmental chemicals of the cell processor.
13	**The Collaboration Center of Kyushu Institute of Technology, Wakamatsu office**	Kyushu Institute of Technology	This center conducts research on AI speech dialogue systems, high compression efficiency and qualitative improvement of video and sound, and education programs for strategic logistics.
14	**Japan Science and Technology Agency**	IT Advancement Center	PRESTO Individual Research Program: "Photoenergy conversion systems and materials for the next generation solar cells"
15	**Fuzzy Logic Systems Institute Imasato's Laboratory**	Technology Development and Exchange Center	This lab operates trials and research on fuzzy logic information processing system.
16	**The International Center for the Study of East Asian Development**	Technology Development and Exchange Center	This center conducts research on new electronics towards the realization of a society harmonized with the natural environment.

Companies

As of August 1, 2011

	Resident Location		The Name of Company	Current Business Content
1	Collaboration Center		Infogram Inc.	The entire businesses related to system development, computer education service and internet service.
2			Ishida Patent Office	Patent, representing registration of utility models, design and trademarks registration, consulting of patent registration
3			Renesas Micro Systems Co., Ltd.	Design and development of system LSI, microcomputer, memory, embedded software
4			QEL Co., Ltd.	Research and development of semiconductor measurements and production equipment, applied product of image compression
5		●	Be corporation	Research and development of image processing system and software
6			World Fusion Co., Ltd.	Development and sale of bioinformatics and chemical informatics software, and database
7			Partner Co., Ltd.	Research and development of power saving control system for primary industries
8			ITest Co., Ltd.	Control system, embedded systems, software development and verification
9			Gentex Japan Co., Ltd.	Research on methodology and product features of the auto-dimming mirror sensor
10			Satori Electric Co., Ltd.	Development and research on systems using wireless modules tailored to a low-carbon society
11	Semiconductor Center		Shikino High-Tech Co., Ltd.	Design and fabrication of semiconductor equipment adjustment, LSI circuit design and layout
12			Security Information Laboratory	Program development and consulting
13			K2R Inc.	Development of water producing device containing free radicals using a catalytic reaction
14	IT Advancement Center		Real Vision Kitakyushu Inc.	Development of graphics LSI and graphics Boards
15			Jedat Innovation Inc.	Research and development of software for semiconductor design, and sales
16			HIJI High-Tech Co., Ltd.	Development of LSI design, evaluation, test system and board, assembly and test of highly reliable IC
17			D-CLUE Technologies Co., Ltd.	Analog circuit design, firmware development, system development
18			Dai Nippon Printing Co., Ltd.	LSI/IP design and development, development of evaluation design technology
19			ONGA Engineering Co., Ltd.	Development of sound signal processing technology, development of fundamental technologies and industry-academic-government cooperation
20			Silicon Artist Technology Co., Ltd.	Support service solutions for LSI chip design and manufacturing (Engineering Sample/Mass Production)
21			FueTrek Co., Ltd.	Development of software, research and development of software design technique, structural design method and tools
22			Seedea Corporation	LSI design and development
23	Business Venture Support Center		AC Technologies Kitakyushu Co., Ltd.	Business development of analog IC design and electronics equipment design, and semiconductor test-related business
24		●	Geo Cluster Co., Ltd.	Development and sales of environmental products, urban planning and environmental consultants
25			Hirocon Corporation	Customer-made computer software and hardware development
26			Syswave Corporation	Research and development of image processing system, development of imaging algorithm utilizing the object identification
27		●	KITHIT Co., Ltd.	Sales and scenario creating for voice conversation system
28		●	Jikken Kaihatsu Inc.	Education equipment for clinical engineering, optical transmission biosignal measurement device
29		●	BraTech Co., Ltd.	Web system development, academic business solutions
30			MIX Technologies, Inc.	Actvila (acTVila) browser, BML browser development and sales
31		●	Vessel Inc.	Development and sales of biomaterials for biomedical and biotechnology
32		●	STEM Biomethod Corporation	Research and development, manufacturing and sale of equipment and devices to support biotechnology research
33			Nagase Co., Ltd.	Research and development on wafer technology
34		●	RoboPlus Hibikino Co., Ltd.	Mechtronics design, manufacturing and sales, consultancy
35			OHG Institute Co., Ltd.	Research and development on clinical laboratory technology and clinical examination, biological samples analysis
36			HAKUTSU Technology Corporation	Regional business consortium project, software development such as building diagnostic system with wireless sensor networks
37		●	Gem Design Technologies, Inc.	EDA Tool development, Consultation
38			Denken Co., Ltd.	Semiconductor process service (PKG prototype development, mass production, reliability evaluation, analysis, temporary staffing)
39			Logical Product Corporation	Research and development of wireless sensors, small radios and other wireless equipment
40			Robo Future Co., Ltd.	Research and development on robot
41			Certified public accountant (Mr. Yamaguchi)	CPA Business
42		●	Hybrid Recognition Technologies Ltd.	Research and development of image processing software
43			Liquid Design Systems Inc.	Research and development of 3D IC technology, verification and design services
44			Neo Engineering Inc.	Development of agricultural and forestry support robot
45		●	STEQ Co., Ltd.	Development and commercialization of high heat dissipation, low cost LED mounting technology
46			Fukudenshizai Co., Ltd.	Research and development of compact, lightweight underwater LED lighting for the fishing industry
47		●	Price Management of Japan, LLC	Development of chemical data analysis software
48	Technology Development and Exchange Center		Area Co., Ltd.	Electronic technology (semiconductor evaluation and analysis, test application development, design control circuit and board, hardware and software development)
49			Yoshikawa Kogyo Co., Ltd.	RF-ID research and development business
50			Fuji Electric Co., Ltd.	Car electronics related research and development
51			C&G Systems Inc.	CAD/CAM software development for mold design and processing
52			ECS Co., Ltd.	Development of automotive embedded systems software, hardware design, testing and fitting
53			New Japan Radio Co., Ltd.	Research, development, and survey of semiconductor
54			Shabondama Soap Co., Ltd.	Manufacture and sale of additive-free cosmetic soap, household detergents, extinguishing agents, etc.

※●Marks are new businesses from KSRP ventures (12 companies)

Universities and facilities for industry-academic cooperation at Science and Research Park

1 The University of Kitakyushu

Faculty of Environmental Engineering

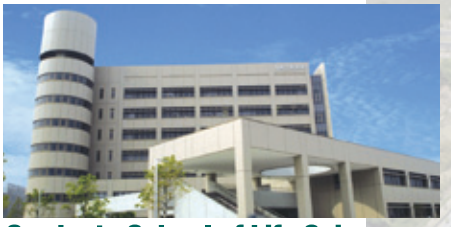
◎Student capacity: 1000
- Department of Chemical and Environmental Engineering
- Department of Mechanical Systems Engineering
- Department of Information and Media Engineering
- Department of Architecture
- Department of Life and Environment Engineering

Graduate School of Environmental Engineering

◎Student capacity: 356
- Graduate Programs in Environmental Systems
- Graduate Programs in Environmental Engineering
- Graduate Programs in Information Engineering

Contact: Press Department +81-93-695-3311

2 Kyushu Institute of Technology



Graduate School of Life Science and Systems Engineering

◎Student capacity: 352
- Department of Biological Functions Engineering
- Department of Brain Science and Engineering

Contact: Administration Office, School Affairs Division +81-93-695-6003

3 Waseda University

Graduate School of Information, Production and Systems

◎Student capacity: 460
- Information Architecture
- Production Systems
- System LSI

Contact: Administration Office +81-93-692-5017

4 Fukuoka University

Graduate School of Engineering

◎Student capacity: 32
- Graduate Program of Recycling and Eco-Technology
- Energy and Environment Systems

Contact: Administration Office +81-93-871-6631

※in collaboration center

Eco Campus

Eco-Campus aims to be environmental and makes good use of nature/environment, proactive use of renewable energy, committed to energy conservation, and recycling of resources.

Environmental Symbiosis Resourceful use of renewable energy

Incorporation of natural wind, natural light, greenery on roofs and walls, and underground heat storage system for air conditioning and heating

Water Recycling Effective use of water resources and wastewater purification

Establishment of the biotope (※1), and natural waterway, and water recycling system

Generation of Electricity and Heat New Energy Initiatives

Providing electricity and heat by cogeneration system (※2), gas engine, fuel cells, and solar cells

※1 : Biotope
Biotope is an environment inhabited by various wild creatures interacting with each other for coexistence.

※2 : Cogeneration System
This system efficiently uses electricity and the discharged heat from the production of electricity.

Best 100 New Energies

On April 22, 2009, the eco activities of the campus, "KSRP Eco Campus - Promotion of New Energy Initiatives" was selected as one of the best 100 new energies funded by New Energy and Industrial Technology Development Organization (NEDO).

A Collaboration Center

Collaboration Center Building 1

Core facilities for pursuing research among of industry, academic and government

The Fukuoka Research Center for Recycling Systems, businesses conducting cutting-edge research and graduate school of engineering of Fukuoka University are located in the Center. In addition, the Collaboration Center also provides a conference room accommodating up to 100 people and seminar rooms.

- Laboratories (31 rooms)
- Conference room, Seminar room (S, M, L)

B Semiconductor Center

Collaboration Center Building 2

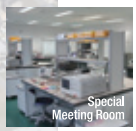
Facilities to support research and development on semiconductor microfabrication technology

This is a facility for research and development on semiconductor manufacturing related fields performed by companies and universities. It opens up the use of high-precision machinery for research and development on trial manufacturing of IC and MEMS and provides laboratories. The practical experiment on trial manufacturing of IC (CMOS process) can also be available.

- Laboratories (7 rooms)
- Facilities for sharing equipment related to semiconductor process (Clean Room, Ion implanter, plasma CVD, Laser Beam Exposure System and etc.)

C IT Advancement Center

Collaboration Center Building 3



Facilities for performing research and development on the network and semiconductor design

This is a facility for research and development on semiconductor design technology and advanced information and communication technology performed by companies and universities.

- Laboratories (24 rooms)
- Facilities for R&D of semiconductor design

D Business Venture Support Center

Collaboration Center Building 4

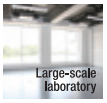
Facilities to support R&D and commercialization for starting up new businesses from campus ventures

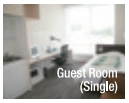
This is a facility to provide general office clerical, mechanical and chemical laboratories and small booth units available in the joint laboratory.

- Laboratories (33 rooms)
- Collaborative Laboratory (10 booths)

E Technology Development and Exchange Center

Collaboration Center Building 5





Facilities to support new technology development in fields such as robotics and car electronics

This is a facility to support new technology development in the field of robotics and car electronics by utilizing the achievements in the Kitakyusyou Science and Research Park. There are also guest rooms equipped for visitors who come to the KSRP for the purpose of research.

- Laboratories (38 rooms) Large Laboratories, Chemical Laboratories, IT Laboratories
- Guest Rooms (9 rooms) 8 single rooms, 1 twin room
- Collaboration rooms (2 rooms)

F Media Center

Library, Information Process Facility

Multimedia station, integration, and transmission of Information

In addition to the collection and provision of scientific information (library) and education for students in information processing, the Media Center carries out the management of the on-campus broadband information network and provides various communications services.

Laboratory Rental Fees

◎2,000 yen/m² per month (Common fees : 500 yen/m² per month)
(Example: In the case of a laboratory that is 50 m² the approximate fee is 1.5 million yen per year (common fees are not included))

※Kitakyushu Foundation for the Advancemnet of Industry, Science and Technology is responsible for the comprehensive management and operation of all its joint-use facilities designated by the City of Kitakyushu.

Contact Information

Kitakyushu Foundation for the Advancement of Industry, Science and Technology (FAIS)

http://www.ksrp.or.jp/【Kitakyushu Science and Research Park Homepage】
http://www.ksrp.or.jp/fais/【Kitakyushu FAIS Homepage】

FAIS

General information for the Kitakyushu Science and Research Park		**E-mail／info@ksrp.or.jp**
Campus Administration Center	Kitakyushu Science and Research Park, Collaboration Center 1st Floor, 2-1 Hibikino, Wakamatsu-ku, Kitakyushu City 808-0135	TEL 093-695-3111 FAX 093-695-3010
Inquiries for establishing new businesses and management of SME		**E-mail／info@ktc.ksrp.or.jp**
SME Support Center	Kitakyushu Techno Center, 1st Floor, 2-1 Nakaharashin-machi, Tobata-ku , Kitakyushu City 804-0003	TEL 093-873-1430 FAX 093-873-1450
Inquiries concerning research contents of universities and collaboration between industry and academies		**E-mail／iac@ksrp.or.jp**
Collaboration Coordination Center	Kitakyushu Science and Research Park, Collaboration Center 2nd Floor, 2-1 Hibikino, Wakamatsu-ku, Kitakyushu City 808-0135	TEL 093-695-3006 FAX 093-695-3018
Inquiries for semiconductor design, development support, and nurturing human resources		**E-mail／sec@ksrp.or.jp**
Semiconductor Technology Center	Kitakyushu Science and Research Park, Semiconductor Technology Center, IT Advancement Center 1st Floor, and Research Park 2-5 Hibikino, Wakamatsu-ku, Kitakyushu City 808-0135	TEL 093-695-3007 FAX 093-695-3667
Inquiries concerning research and development of car electronics industry, and human resources development		**E-mail／car@ksrp.or.jp**
Car Electronics Center	Kitakyushu Science and Research Park, Technology Development and Exchange Center 1st Floor, 1-103 Hibikino-kita, Wakamatsu-ku, Kitakyushu City 808-0138	TEL 093-695-3685 FAX 093-695-3686
Inquiries concerning research and development of robotic technology, and human resource development		**E-mail／robotics@ksrp.or.jp**
Robotics Development Support Department	Kitakyushu Science and Research Park, Technology Development and Exchange Center 1st Floor, 1-103 Hibikino-kita, Wakamatsu-ku, Kitakyushu City 808-0138	TEL 093-695-3085 FAX 093-695-3525

ACCESS

By Public Transportation

- Bus stop at JR Orio Station West Exit → City Bus → Gakkentoshi(KSRP) Hibikino ※Approx. Time : 15 min.
- Bus stop at JR Kurosaki Station → City Bus / Nishitetsu Bus → Gakkentoshi(KSRP) Hibikino ※Approx. Time : 30 min.
- Bus stop at Kitakyushu Airport → Nishitetsu Bus → Gakkentoshi(KSRP) Hibikino ※Approx. Time : 70 min.

By Car

- Kitakyushu Urban Expressway Kurosaki Ramp ※Approx. Time : 20 min. from the Kitakyushu Urban Expressway, Kurosaki Ramp

No.1109154C '12/03 CITY OF KITAKYUSHU