

北九州学術研究都市 2019-2020

KSRP

Kitakyushu Science and Research Park



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

About Kitakyushu Science and Research Park

Kitakyushu Science and Research Park (KRSP) opened in April 2001, aims to "further the development of technology and the creation of new industries" and "Technologies research center open to Asia" through a single campus integration of national, municipal and private universities that specialize in science and engineering. The four universities (and 1 undergraduate program) already based at the park are engaged in the training and research of cutting-edge science technologies, in particular, IT and biotechnology under the common philosophy of KSRP.

Objectives of the Kitakyushu Science and Research Park

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

Technologies research center open to Asia

Promoting the creation of new industries and the further development of technology

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

Strategic objectives of new growth in Kitakyushu

Kitakyushu Science and Research Park Project

● Fundamental policy

Taking advantage of both natural and urban environments, besides hosting educational and research institutes related to cutting-edge science technology, the facility also provides a comfortable residential environment. The science and research park is being developed based on the concept of "multi-perspective town planning."

● **Development areas** : Western section of Wakamatsu, Northwestern section of Yahatanishi

● **Total development area** : Approximately 335 ha

● **Planned population** : 12,000 (Daytime population)

● Construction schedule :

1st Stage Project (Approximately 121 ha)

1995 - 2006 ※Project completed

Developer : Urban Renaissance Agency

2nd Stage Project (Approximately 136 ha) 2002 - 2018

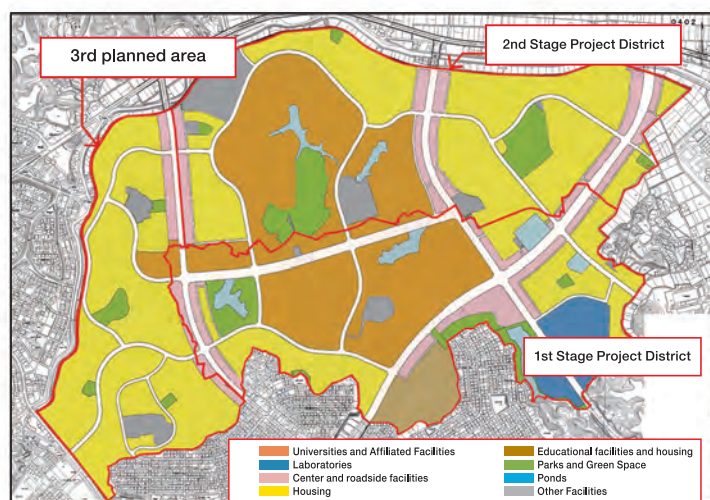
Developer : City of Kitakyushu

3rd Stage Project (Approximately 68 ha)

Under Consideration

River improvement (Approximately 10 ha)

[Schematic drawing of land use plan (draft)]



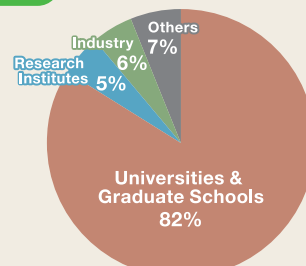
Daytime Population of Kitakyushu Science and Research Park (As of May 1, 2019)

Approximately 3,500

Students 2,456 (including 747 foreign students)

Faculty members 173 (including 31 from industry)
*Only full-time faculty

Researchers 210 (including 68 foreign researchers)



Features of Kitakyushu Science and Research Park

Universities and Research Institutes Related to Science, Engineering, and Research Departments of Companies Located on 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 (12 research institutes)
 - Companies involved in research and development (50 companies)
- (As of August 2019)

Exchange and Collaboration among Researchers, Staff, and Students

- Joint research and faculty exchanges among participating universities
- Transferable credits to other universities
- Operating joint graduate school programs of participating universities on the campus
Joint Graduate School Intelligent Car, Robotics & AI

Common Educational and Research Principles among Universities on the Campus

- Conducting advanced education and research in the fields of cutting-edge science technology
- Promotion of collaboration between industry and academia
- Nurturing an entrepreneurial spirit
- 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 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





Promotion of excellent joint research facilities of KSRP attracts not only universities to the campus, but also companies related to semiconductor design and research institutes. In addition, 12 venture companies have been established utilizing research *seeds of the universities of KSRP.

As of August 1,2019

	Name of Research Institution	Location	Research Content
1	Institute of Environmental Science and Technology, The University of Kitakyushu	The University of Kitakyushu	Strategic promotion of research and technology development in the fields of the environment, energy, biomaterials, information, robot technologies, and others to respond to changes in the global environment and the needs of local society.
2	Kyushu Institute of Technology, Research Center for Next-Generation Power Electronics	Kyushu Institute of Technology and Semiconductor Center	Research on next-generation power electronics focusing on power semiconductors that can contribute to the development of a low-carbon society, such as the promotion of energy savings and the application of advanced technologies for electric power and natural energy.
3	Research Center for Solar Light Energy Conversion, Kyushu Institute of Technology	Kyushu Institute of Technology	Research and development on the direct conversion of solar light energy into electric energy or chemical energy, and storage materials and devices to store energy.
4	Kyushu Institute of Technology	Collaboration Center	Research on robotics and AI
5	Information, Production and Systems Research Center, Waseda University	Information, Production and Systems Research Center, Waseda University	World-class, advanced research and human resources development in the fields of automotive electronics and LSI.
6	Academic, Industrial and Governmental Liaison Center, Fukuoka University Kitakyushu Industry-Academia Cooperation Promotion Office	Collaboration Center	Expansion of the promotion of environmental industries through industrial, academic, and government collaboration to match corporate needs of environmental industries and the policies and seeds of municipal governments.
7	HiBD Laboratory Association	Collaboration Center and Business Venture Support Center	Research and development on the manufacturing of liquid fuel from renewable resources and carbon dioxide.
8	Behavior Assessment Systems Laboratory	IT Advancement Center	Development of application to check the mental conditions of athletes.
9	Fuzzy Logic Systems Institute Imasato's Laboratory	Semiconductor Center and Technology Development and Exchange Center	Test studies on information processing systems that apply fuzzy logic.
10	Fukuoka Research Commercialization Center for Recycling Systems	Collaboration Center	Supporting R&D and business development by industries, academia, government and the public that are engaged in the development of recycling technologies and the establishment of social systems to build a resource-recycling society.
11	Center for Contemporary Art, CCA Kitakyushu	IT Advancement Center	Research and development on expression technologies through information and communications to create multimedia contents and develop human resources in cooperation with universities.
12	Green Electronics Research Institute, Kitakyushu	Business Venture Support Center	Research on the design of next-generation power semiconductors, credibility studies, and development of compact power sources. Collaborative research with universities and companies and development of human resources.

	Resident Location	Company Name	Current Business Content
1	Collaboration Center	INFOGRAM Inc., Kitakyushu Branch Office	System development, computer educational services, internet services, and all incidental work related to the preceding items
2		ISHIDA PATENT OFFICE	Proxy for application procedures for patents and registration of utility models, designs, and trademarks, consulting services on filing patent applications
3		KOA CORPORATION	Information collection and information exchange on electronic parts, sensor elements, and sensor modules, joint industry-academic development
4		PLANTMAKE RISE	Development of coating agents for incinerator facilities, development of structural calculation software using 3D scanners
5		KOISHI CO., LTD	Experiments and measurements
6		AIM QEL WIZBL JAPAN CO.,LTD	Development and research on blockchain technology and information systems that use this technology
7	Semiconductor Center	Security Information Laboratory	Systems development and maintenance (24 hours a day, 365 days a year)
8		K2R Inc.	Research and development on water generation equipment containing radical species using catalytic reactions
9	IT Advancement Center	Windy Co.,Ltd.	Development of software used at hospitals and pharmacies, development of work analysis software used at automobile plants
10		Mishimakosan Co.,Ltd.	Development and manufacturing of automatic drug dispensers to remove wrappers and pharmaceutical-related equipment
11		Health Resources Research and Consulting Inc.	Research and development of educational systems
12		OHG Institute Co.,Ltd	Research and development of clinical tests and clinical testing technology, analysis of biological samples
13		Meiryo CO.,Ltd.	Joint research with the Kyushu Institute of Technology on functional resin materials
14		● RoboPlus Hibikino Co.,Ltd.	Design, manufacturing, and sales of mechatronics, consulting services
15	Business Venture Support Center	ITS Inc.	Research and development on electronic parts, such as semiconductor integrated circuits
16		● BE Corporation	Research and development on image processing systems and software
17		● Technology for Laboratory Inc.	Development and sales of clinical engineering educational equipment and optical transmission bio-signal measuring devices
18		● BraTech Co.,Ltd.	Development of web systems, academic solution programs
19		sMedio,Inc.	Research and development of systems in next-generation broadcasting (advanced band satellite broadcasting)
20		HAKUTSU TECHNOLOGY Corporation.	Development of illuminated, energy-saving control systems using wireless sensor networks
21		Hibikino Accounting Office	Yamaguchi Certified Public Accountant and Tax Accounting Office (certified public accounting services)
22		AKSystem Co.,Ltd	Research and development on applications for new industrial fields, such as techniques to fabricate manufacturing equipment for semiconductors
23		Calsonic Kansei Corp.	Joint research with the City of Kitakyushu (Green Electronics Research Institute)
24		● Artix,inc	Research and development on FinTech and artificial intelligence, research and development on computer software
25		● CCAS Co.,Ltd.	Research and development on manufacturing systems for modified fly ash concrete
26		HOKOSYA Co., Ltd.	Research and development on curved surface wiring technologies using molecular adhesion technologies and high-luminance, highly-reliable LED lighting
27		● KAEI TRADING CO.,LTD	Research and development on environmental technologies and environmental products for application in China
28		TuSimple JAPAN	Research and development, design, and sales of autonomous driving technology for vehicles
29		● Mirai Work System,LLC	Development of tools to reduce labor and work and related business
30		Organization for Career Education & Support (OCES)	Career guidance in secondary education, career education, and education for career counseling
31		Hibito Design	Research on impacts and effects influencing a child's future by digitalizing drawings and art created by children and storing them in combination with designs
32		ON GRIT ENGINEERING,Inc.	Studies on social infrastructure(structures)and development of diagnostic equipment
33		ENVIRONMENT ENERGY CO.,LTD	Development and practical applications of bio-jet fuel, development of high-quality bio-diesel fuel
34		J.A.Mengineering Institute	Joint research with Nagasaki University's Graduate School of Engineering and Yawata Electric Machinery Mfg. Co., Ltd. on motor drive technologies and business development based on research results
35		● Hibikino electronic corporation	Development of electrical field resonance-type bio-sensing and sensing data analysis systems
36		● Kankyou Photonics Co.,Ltd.	Research, development, and sales of LED light sources for plant growth
37		MATERIAL NETWORK ENGINEERING Co.,Ltd.	Research and development on plating processes for reed switch parts
38		Q-CuI LLC.	Research and development on embedded software
39	Technology Development and Exchange Center	Shikino High-Tech Co.,LTD	Design/manufacturing/control of semiconductor equipment, LSI circuit design/layout, other
40		YOSHIKAWA KOGYO RF SOLUTION CENTER	Research and development projects on RF-ID
41		C&G SYSTEMS INC.	Development of CAD/CAM software for mold design and processing
42		Shabondama Soap Co.,Ltd.	Manufacturing and sales of additive-free cosmetic soap, household cleaners, fire retardants, other
43		TORICO LTD	Development and repair of electrical parts
44		● FILTOM, INC.	Development, manufacturing, and sales of cosmetics using placenta extract (placenta fluids from pigs)
45		AISIN SEIKI CO., LTD.	Development of elemental technologies, such as image recognition/spatial recognition, and vehicle control
46		KYOTO ELECTRONICS MANUFACTURING CO., LTD.	Development of prototypes and evaluations to establish technical elements for the manufacturing of new sensors
47		Japan unmanned vehicle exploration agency	Advancement and dissemination of research on unmanned aircraft as a site for the exchange of knowledge and provision of information on studies, research, and technology improvement for all unmanned aircraft
48		● Secure Cycle Inc.	Development of general platforms for behavior recognition technologies and security
49		YASKAWA ELECTRIC CORPORATION	Robot tests and imitation of human movement
50		Other, 1 company	

1 The University of Kitakyushu

Faculty of Environmental Engineering

■ Student capacity: 1005
 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: 336
 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 Human Intelligence Systems
 Department of Life Science and Systems 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
 Integrated Systems
 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
 +81-92-871-6631

Numbers of students and professors

As of May 1, 2019

University	Undergraduate	Postgraduate	PhD	Research students	Special research students	Total number of students	Number of professors
The University of Kitakyushu Faculty of Environmental Engineering	1,108 (26)	— —	— —	5 (5)	0 (0)	1,113 (31)	87
The University of Kitakyushu Graduate School of Environmental Engineering	— —	317 (70)	96 (81)	0 (0)	0 (0)	413 (151)	—
Kyushu Institute of Technology Graduate School of Life Science and Systems Engineering	— —	254 (27)	146 (57)	4 (4)	4 (4)	408 (92)	45
Waseda University Graduate School of Information, Production and Systems	— —	444 (412)	71 (55)	2 (2)	0 (0)	517 (469)	39
Graduate School of Engineering, Fukuoka University	— —	4 (4)	1 (0)	0 (0)	0 (0)	5 (4)	2
Total	1,108 (26)	1,019 (513)	314 (193)	11 (11)	4 (4)	2,456 (747)	173

number in () indicates the number of foreign students

A Collaboration Center

Collaboration Center
Building 1



Core facilities for pursuing research among industry, academia and government

The Fukuoka Research Commercialization Center for Recycling Systems and other research institutes, companies conducting cutting-edge research, and Graduate School of Engineering, Fukuoka University are located in the Center. In addition, the Collaboration Center is also equipped with a conference room and seminar room that can accommodate up to 100 visitors.

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

B Semiconductor Center

Collaboration Center
Building 2



Facilities to support research and development of semiconductor microfabrication technology

This facility is for research and development of semiconductor manufacturing related fields by companies and universities. The facility offers use of high-precision machinery for research and development related to trial manufacturing of ICs and MEMS and is equipped with laboratories. The practical experiments on trial manufacturing of ICs (CMOS process) are also available.



- Laboratories (7 rooms)
- Shared micromachining devices for ICs and MEMS (Electron beam drawing apparatus, ion implanters, double-sided exposure apparatus, rapid heat treatment apparatus (RTA), dicing saw, bonding equipment, etc.)

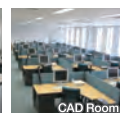
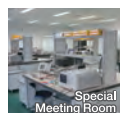
C IT Advancement Center

Collaboration Center
Building 3



Facilities for conducting research and development on networks and semiconductor design

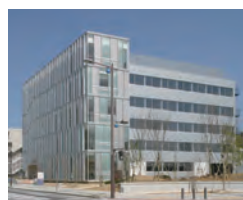
This facility is for research and development related to semiconductor design technology and advanced information and communication technology by companies and universities.



- Laboratories (33 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 facility provides general office clerical, mechanical and chemical laboratories and small booth units are available in the joint laboratory.



- Laboratories (36 rooms) Large Laboratories, Chemical Laboratories
- Conference room (S,M)
- Collaborative Laboratory (10 booths)
- Share office

F Media Center

Library,
Information Processing 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 manages 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))

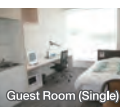
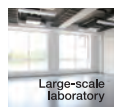
E Technology Development and Exchange Center

Collaboration Center
Building 5



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

This facility supports new technology development in the fields of robotics and automotive electronics by utilizing the achievements of the Kitakyushu Science and Research Park. Guest rooms are furnished for visitors who come to KSRP for the purpose of research.



- Laboratories (48 rooms) Large Laboratories, Chemical Laboratories
- Guest Rooms (9 rooms) 8 single rooms, 1 twin room
- Conference room (S,M)
- Collaboration rooms (2 rooms)



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

【Kitakyushu Science and Research Park website】 <https://www.ksrp.or.jp/>

【Kitakyushu FAIS website】 <https://www.ksrp.or.jp/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 808-0135	TEL +81-93-695-3111 FAX +81-93-695-3010
Inquiries related to research content of universities and collaboration between industry and academia		E-mail / iac@ksrp.or.jp
Collaboration Coordination Center	Kitakyushu Science and Research Park, Collaboration Center 2nd Floor, 2-1 Hibikino, Wakamatsu-ku, Kitakyushu 808-0135	TEL +81-93-695-3006 FAX +81-93-695-3018
Support for “innovative manufacturing” activities and semiconductor companies, inquiries on other R&D projects, other		E-mail / iac@ksrp.or.jp
Manufacturing Innovation Center	Kitakyushu Science and Research Park, Collaboration Center 2nd Floor, 2-1 Hibikino, Wakamatsu-ku, Kitakyushu 808-0135	TEL +81-93-695-3007 FAX +81-93-695-3667
Inquiries on new business creation in the ICT field		E-mail / iipc@ksrp.or.jp
Information Industry Promotion Center	Planning Section, Information Industry Promotion Department	
	Kitakyushu Science and Research Park, Collaboration Center 2nd Floor, 2-1 Hibikino, Wakamatsu-ku, Kitakyushu 808-0135	TEL +81-93-695-3077 FAX +81-93-695-3667
FAIS Higashida Office	Kyushu Human Media Creation Center 1-5-7 Higashida, Yahatahigashi-ku, Kitakyushu 805-0071	TEL +81-93-663-2950
Inquiries related to research and development, human resources development, etc., in the car field		E-mail / car@ksrp.or.jp
Car Technology Center	Kitakyushu Science and Research Park, Technology Development and Exchange Center 1st Floor, 8-1 Hibikino-kita, Wakamatsu-ku, Kitakyushu 808-0138	TEL +81-93-695-3685 FAX +81-93-695-3686
Inquiries related to research and development, human resources development, etc., in the robotics field		E-mail / robotics@ksrp.or.jp
Robotics Technology Center	Kitakyushu Science and Research Park, Technology Development and Exchange Center 1st Floor, 8-1 Hibikino-kita, Wakamatsu-ku, Kitakyushu 808-0138	TEL +81-93-695-3085 FAX +81-93-695-3525
Inquiries on R&D and human resources development related to support for the development of nursing care robots		E-mail/ robocare@ksrp.or.jp
National Strategic Special Zone Line	Kitakyushu Science and Research Park, Technology Development and Exchange Center 1st Floor, 8-1 Hibikino-kita, Wakamatsu-ku, Kitakyushu 808-0138	TEL +81-93-695-3046 FAX +81-93-695-3525
Inquiries related to establishing new businesses and management of SME		E-mail / k_info@ksrp.or.jp
SME Support Center	Kitakyushu Techno Center, 1st Floor, 2-1 Nakabarushin-machi, Tobata-ku, Kitakyushu City 804-0003	TEL +81-93-873-1430 FAX +81-93-873-1450



ACCESS

By Public Transportation
By Car

● Bus stop at JR Orio Station West Exit ——— City Bus ———→ Gakkentoshi(KSRP) Hibikino *Approx. Time : 15 min.
● Bus stop at Kitakyushu Airport ——— Nishitetsu Bus ———→ Gakkentoshi(KSRP) Hibikino *Approx. Time : 80 min.
● Kitakyushu Urban Expressway Kurosaki Ramp Use the Kurosaki/Orio exit and head towards Orio

*Approx. Time : 20 min. from the Kitakyushu Urban Expressway, Kurosaki Ramp
● Center of Kokura → Kitakyushu Urban Expressway Higashida Ramp → Kurosaki Bypass Kogasaki Ramp → Gakkentoshi(KSRP) Hibikino
*Time required: Approx. 30 min. from the center of Kokura