KSRP

Kitakyushu
Science
and
Research
Park

北九州学術研究都市

2020-2021

https://www.ksrp.or.jp/

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

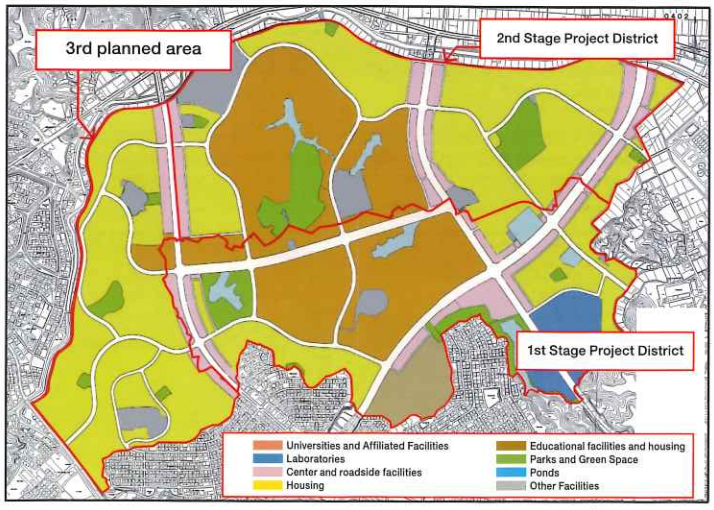
Taking advantage of both natural and urban environments, besides hosting educational and research institutes related to cutting-edge science technology, the facility also provides a comfortable residential environment. The science and research park is being developed based on the concept of "multi-perspective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

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

●Total development area : Approximately 335 ha

●Planned population : 12,000 (Daytime population)

【Schematic drawing of land use plan (draft)】



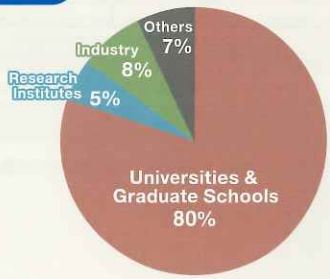
●Construction schedule :

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)

Daytime Population of Kitakyushu Science and Research Park (As of May 1, 2020)

Approximately 3,600

Students		2,481 (including 815 foreign students)
Faculty members	*Only full-time faculty	175 (including 33 from industry)
Researchers		206 (including 72 foreign researchers)



Research Institute

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, 2020

	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	Center for Socio-Robotic Synthesis, Kyushu Institute of Technology	Kyushu Institute of Technology	○Development and practical application of specialized environmental robots capable of operating in extreme environments ○Development and practical application of medical and nursing care robots ○Development and practical application of technologies supporting factory automation ○Development of open software capable of assuring quality to support the practical application of reliable robots
4	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.
5	Academic,Industrial and Govenmental 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.
6	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.
7	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.
8	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.
9	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.

Companies

As of August 1, 2020

	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	Development of technologies for application on construction sites
6			AIM QEL WIZBL JAPAN CO.,LTD	Development and research on blockchain technology and information systems that use this technology
7			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
8	Semiconductor Center		Security Information Laboratory	Systems development and maintenance (24 hours a day, 365 days a year)
9			K2R Inc.	Research and development on water generation equipment containing radical species using catalytic reactions
10	IT Advancement Center		Windy Co.,Ltd.	Development of software used at hospitals and pharmacies, development of work analysis software used at automobile plants
11			Mishimakosan Co.,Ltd.	Development and manufacturing of automatic drug dispensers to remove wrappers and pharmaceutical-related equipment
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			ITS Inc.	Research and development on electronic parts, such as semiconductor integrated circuits
16	Business Venture Support Center	●	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			Hibikino Accounting Office	Yamaguchi Certified Public Accountant and Tax Accounting Office (certified public accounting services)
20			AKSystem Co.,Ltd	Research and development on applications for new industrial fields (Medical and welfare field), such as techniques to fabricate manufacturing equipment for semiconductors
21			Marelli corporation	Research on electrical testing technologies using magnetic flux sensors and analog circuits
22		●	Artix,inc	Research and development on IoT, artificial intelligence, blockchain technology, other
23		●	CCAS Co.,Ltd.	Research and development on manufacturing systems for modified fly ash concrete
24			HOKOSYA Co., Ltd.	Research and development on curved surface wiring technologies using molecular adhesion technologies and high-luminance, highly-reliable LED lighting
25			TuSimple JAPAN	Research and development, design, and sales of autonomous driving technology for vehicles
26		●	Mirai Work System,LLC	Development of tools to reduce labor and work and related business
27			Organization for Career Education & Support (OCES)	Career guidance in secondary education, career education, and education for career counseling
28			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
29			ENVIRONMENT ENERGY CO.,LTD	Development and practical applications of bio-jet fuel, development of high-quality bio-diesel fuel
30		●	Hibikino electronic corporation	Development of electrical field resonance-type bio-sensing and sensing data analysis systems
31		●	Kankyou Photonics Co.,Ltd.	Research, development, and sales of LED light sources for plant growth
32			MATERIAL NETWORK ENGINEERING Co.,Ltd.	Development of metal surface treatments(coating/plating) for electronic/semiconductor parts and new films
33			Q-Cul LLC.	Research and development on embedded software
34			WORKS Co.,Ltd	Development of precision plastic injection molding technologies
35		●	Robo science CO.,LTD	Research and development of underwater robots and related products
36			Apollo Japan Co,Ltd	Development of basic technologies for screen codes and autonomous driving
37	Technology Development and Exchange Center		Shikino High-Tech Co.,LTD	Design/manufacturing/control of semiconductor equipment, LSI circuit design/layout, other
38			YOSHIKAWA KOGYO RF SOLUTION CENTER	Research and development projects on RF-ID
39			C&G SYSTEMS INC.	Development of CAD/CAM software for mold design and processing
40			Shabondama Soap Co.,Ltd.	Manufacturing and sales of additive-free cosmetic soap, household cleaners, fire retardants, other
41			TORICO LTD	Development and repair of electrical parts
42		●	FILTOM, INC.	Development, manufacturing, and sales of cosmetics using placenta extract (placenta fluids from pigs)
43			AISIN SEIKI CO., LTD.	Development of elemental technologies, such as image recognition/spatial recognition, and vehicle control
44			KYOTO ELECTRONICS MANUFACTURING CO., LTD.	Development of prototypes and evaluations to establish technical elements for the manufacturing of new sensors
45		●	Secure Cycle Inc.	Development of general platforms for behavior recognition technologies and security
46			YASKAWA ELECTRIC CORPORATION	Robot tests and imitation of human movement

* ●Indicates new business from KSRP ventures (12 companies)

Universities, research institutes, companies, and facilities for industry-acade

1 The University of Kitakyushu

Faculty of Environmental Engineering

■Student capacity: 1010

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:Administratoin Office,School Affairs Divison +81-93-695-6003

3 Waseda University

Graduate School of Information, Production and Systems

■Student capacity: 460

Information Architecture

Production Systems

Integrated Systems

Contact:Administratoin 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:Administratoin Office
+81-92-871-6631

*Inside collaboration center

Numbers of students and professors

As of May 1, 2020

University	Undergraduate	Postgraduate	PhD	Research students	Special research students	Total number of students	Number of professors
The University of Kitakyushu Faculty of Environmental Engineering	1,095 (42)	– –	– –	3 (3)	0 (0)	1,098 (45)	86
The University of Kitakyushu Graduate School of Environmental Engineering	– –	313 (69)	121 (106)	1 (1)	0 (0)	435 (176)	–
Kyushu Institute of Technology Graduate School of Life Science and Systems Engineering	– –	264 (34)	145 (67)	1 (1)	2 (2)	412 (104)	47
Waseda University Graduate School of Information, Production and Systems	– –	447 (416)	83 (68)	3 (3)	1 (1)	534 (488)	40
Graduate School of Engineering, Fukuoka University	– –	2 (2)	0 (0)	0 (0)	0 (0)	2 (2)	2
Total	1,095 (42)	1,026 (521)	349 (241)	8 (8)	3 (3)	2,481 (815)	175

number in ( ) indicates the number of foreign students

emia cooperation in KSRP

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)

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))

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

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)

*FAIS is solely responsible for the comprehensive management and operation of all its joint-use facilities designated by the City of Kitakyushu.

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 (9 research institutes)
- Companies involved in research and development (46 companies)

(As of August 2020)

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

President

Vice President

Managing Director

FAIS

Kitakyushu Foundation for the Advancement of Industry, Science and Technology

FAIS

Kitakyushu Foundation for the Advancement of Industry, Science and Technology

- President : Morio Matsunaga
- Board of Directors, etc.:

【Academia】
Vice President of Kitakyushu Science and Research Park participating universities
Presidents of Science and Technology universities in Kitakyushu City

【Industry】
The Chamber of Commerce and Industry, and other business organizations

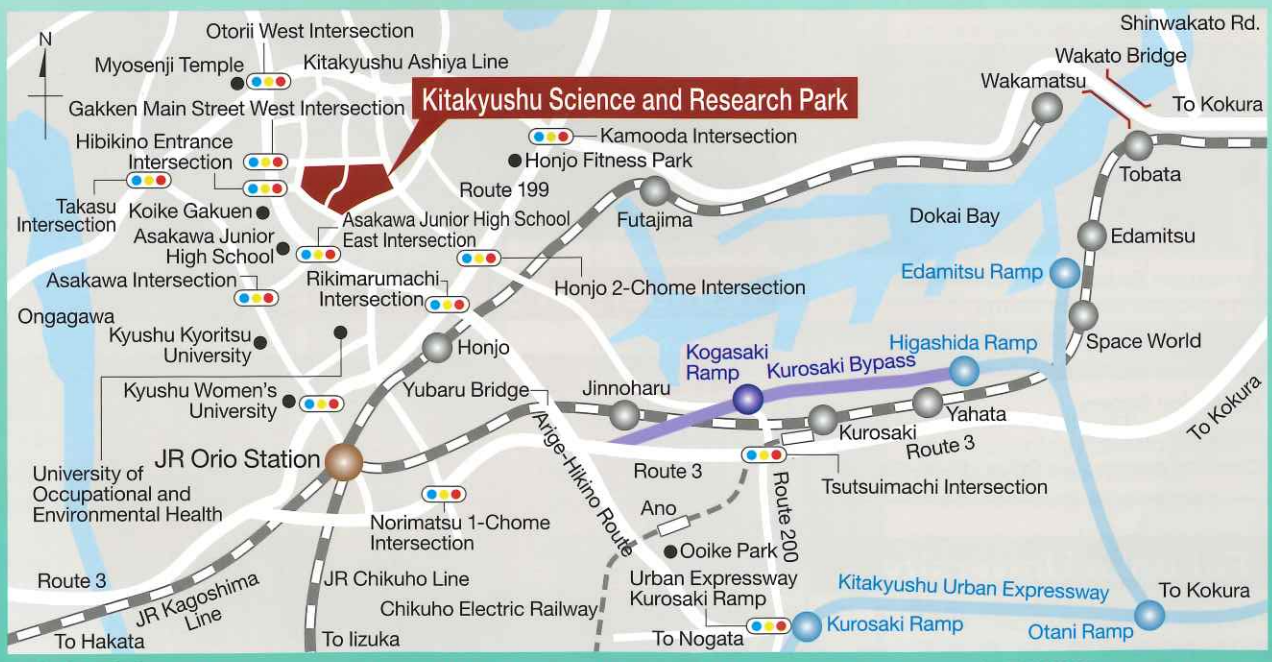
【Administration】
Kitakyushu City, Fukuoka Prefecture

- **General Affairs Office** — This office carries out joint operations of the Kitakyushu Science and Research Park. It administers shared usage of facilities within KSRP, and promotes partnerships and exchanges among universities participating in KSRP.
- **Innovation Center**
  - **Collaboration Department** — The Collaboration Coordination Center also promotes industrial advancement and the creation of new industries by encouraging local companies and mainly SMEs to improve productivity and promoting new styles of manufacturing through open innovation.
  - **Management Support Department** — Strengthening industrial competitiveness of companies in Kitakyushu city through "innovative manufacturing" support activity.
  - **Car Electronics Group** — The Car Electronics Group provides support for human resource development, local companies, and R&D in order to promote the development of a hub for the automotive industry through collaboration among industries, academia and the government. The group supports educational programs at partner graduate schools managed by three universities in the Science & Research Park, helps improve education and productivity by dispatching advisors to local companies, and promotes joint research and development based on research activities in coordination with company engineers and university researchers. With the addition of the semiconductor and electronic fields in fiscal 2019, the group is also providing support to affiliated companies in the city in order to promote this industry.
  - **Information Industry Promotion Group** — In Phase II of the Kitakyushu e -PORT 2.0 plan, the Information Industry Promotion Group aims to (1) generate new businesses, (2)upgrade local industries, and (3) promote the information industry by taking advantage of the concentration of information and communications industries in the city and their know-how in creating new business.
- **Robotics Technology Center** — This department operates the Kitakyushu Robot Forum for the purpose of industrial development of robots in the Kitakyushu region. The department also focuses on the technical development and demonstration of robots through coordination from investigation and development to demonstration of robot technology and collaborative research and development by universities and robot-related companies participating in KSRP. In addition, the center actively serves to support the introduction of robots and develop human resources for promotion of widespread use in local companies.
  - **National Strategic Special Zones (Nursing care)** — Demonstrations are being carried out on nursing care robots and other technologies in National Strategic Special Zones for nursing care with the aim of reducing the burden on caregivers and improving the quality of care through the use of robot technologies. The team also manages the "Kitakyushu City Consortium for the Development of Nursing Care Robots" to support the development and improvement of nursing care robots based on information obtained through demonstrations and work analysis, as well as feedback from those in the field of nursing care. This section also provides support for safety verification and ethical reviews required for demonstrations, introduces demonstration fields and provides subsidies for development costs.
- **SME Support Center** — This center offers a one-stop service system for small and medium-sized enterprises(SME)and businesses.
  The SME Support Center provides consultation services and guidance on dispatching expert staff, using intellectual property, and other issues to support the efforts of individuals and small-and medium-sized enterprises aiming to start up and improve or innovate business operations and management.

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
General Affairs Office	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 on the use of research content at universities,industry-academia collaboration,and other R&D projects		E-mail / iac@ksrp.or.jp
Innovation Center Collaboration Department	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
Management Support Department	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 related to research and development, human resources development,etc.,in the car field		E-mail / car@ksrp.or.jp
Car Electronics Group	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 on new business creation in the ICT field		E-mail / iipc@ksrp.or.jp
Information Industry Promotion Group	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 on R&D and human resources development in the robotics field and National Strategic Special Zones(support for development of nursing care robots)		
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 E-mail / robotics@ksrp.or.jp
National Strategic Special Zones (Nursing care)	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 E-mail / robocare@ksrp.or.jp
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 804-0003	TEL +81-93-873-1430 FAX +81-93-873-1450



ACCESS

By Public Transportation
- ◎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.

By Car
- ◎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

Issued in August 2020