

# Welcome to Kashiwa Campus

## The University of Tokyo



# Adventures in Knowledge

Kashiwa Campus is the newest of the three main campuses of The University of Tokyo in addition to campuses at Hongo and Komaba, and was established with the vision of building a new community with a strong interdisciplinary and international character that can respond to the dynamic scientific and educational needs of the 21st Century.

Hongo Campus, the core of traditional academic activities at The University of Tokyo since its foundation in 1877, and Komaba Campus, focusing on undergraduate studies and building interdisciplinary links between established fields of study for over 60 years, have longstanding academic traditions. Kashiwa Campus recently joined this family and aims at a fundamental reorganization of the structure of traditional academic disciplines, reconsidering the framework of how knowledge is created and organized. Under the slogan of “Adventures in Knowledge”, Kashiwa Campus has started various new initiatives.

The Graduate School of Frontier Sciences (GSFS) consists of three divisions each with relevant departments: Division of Transdisciplinary Sciences, Division of Biosciences, and Division of Environmental Studies. GSFS aims to create new frontiers of academic fields. The Institute for Solid State Physics (ISSP) is exploring a wide variety of phenomena exhibited by various materials from the viewpoint of basic science using state-of-art experimental facilities and techniques. Materials under study include those forming the basis of today’s high-tech society and its future development.

The Institute for Cosmic Ray Research (ICRR) is pursuing the origins of the universe and matter through research on cosmic rays. The Atmosphere and Ocean Research Institute (AORI) not only promotes basic research on the ocean and atmosphere, but also contributes to society through deepening ocean and climate science. The University of Tokyo Institutes for Advanced Study, Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU) pursues the deep mysteries of the universe through the integration of Physics, Mathematics and Astronomy. Other departments include the Center for Spatial Information Science, Kashiwa Branch of Environmental Science Center, the Information Technology Center, the Institute of Gerontology, Institute of Industrial Science (IIS), the Kashiwa Library and the University of Tokyo Archives. As the names suggest, these facilities bring together people from a wide variety of research fields. As an important part of facilitating communication between research fields, Kashiwa Campus also has a strong international character, promoting international contacts and the exchange of ideas from around the world. Through the facilities that exist now or will be built in the near future, Kashiwa Campus has excellent coverage of many of the new fields of science that have growing importance in shaping our lives in the 21st Century. Abandoning the constraints of traditional ways of organizing science, Kashiwa Campus has quickly responded to the continuously evolving frontiers of science in an increasingly global and dynamic society by building new interdisciplinary research facilities and seeding new academic fields. These achievements will make the “adventures in knowledge” in Kashiwa possible.

## Growth of Kashiwa Campus

In 1998, The University of Tokyo established a new campus about 30 km northeast of Tokyo located in Chiba prefecture, in the northern part of Kashiwa city, adjoining Kashiwanoha Park, and the University has consolidated several academic and research units since then. As of May 1st, 2019, the total number of faculties, staffs, graduate students, and researchers at Kashiwa Campus is about 3,300.

		Previous Location	
Relocated in	2000	● Institute for Cosmic Ray Research ● Institute for Solid State Physics	(Tanashi Campus) (Roppongi Campus)
	2001	● Division of Integrated Biosciences, Graduate School of Frontier Sciences	(Hongo Campus)
	2003	● Division of Transdisciplinary Sciences, Graduate School of Frontier Sciences	(Hongo Campus)
	2005	● Research into Artifacts, Center for Engineering [incorporated into the Graduate School of Engineering in 2019]	(Komaba Campus)
		● Center for Spatial Information Science ● High Temperature Plasma Center [incorporated into Graduate School of Frontier Sciences in 2008]	(Komaba Campus) (Hongo Campus)
	2006	● Center for Climate System Research [Consolidation of the Ocean Research Institute and Center for Climate System Research into the Atmosphere and Ocean Research Institute in 2010]	(Komaba Campus)
		● Division of Environmental Studies, Graduate School of Frontier Sciences	(Hongo Campus)
	2010	● Atmosphere and Ocean Research Institute [Consolidation of the Ocean Research Institute and Center for Climate System Research into the Atmosphere and Ocean Research Institute in 2010]	(Nakano Campus)
		● Information Technology Center	(Hongo Campus)
	2011	● Institute of Gerontology	(Hongo Campus)
		● IIS Chiba Experiment Station [Consolidation of IIS Chiba Experiment Station into IIS Large-Scale Experiment and Advanced-Analysis Platform in 2020]	(Inage Ward, Chiba City)
	Founded	2000	● Health Services Center Kashiwa Branch
2003		● Environmental Science Center, Kashiwa Branch	
2004		● Kashiwa Library	
2007		● Institute for the Physics and Mathematics of the Universe [established in 2007, reorganized into Todai Institutes for Advanced Study, in 2011, renamed Kavli Institute for the Physics and Mathematics of the Universe in 2012, renamed The University of Tokyo Institutes for Advanced Study, Kavli Institute for the Physics and Mathematics of the Universe in 2015]	
		2014	● The University of Tokyo Archives

### Outline of The University of Tokyo

Established:	1877 (Departments of Law, Science, Literature, and Medicine)		
President:	Makoto Gonokami		
Teaching/research organizations:	10 faculties, 15 graduate schools, 11 institutes		
Campuses:	Hongo (Bunkyo-ku, Tokyo)	559,176m <sup>2</sup>	Komaba (Meguro-ku, Tokyo) 352,116m <sup>2</sup>
	Kashiwa (Kashiwa, Chiba)	440,384m <sup>2</sup>	

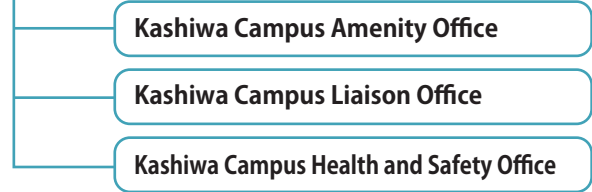
## ■ Kashiwa Campus Management

Kashiwa Campus Joint Academic Management Council was established as an organization for discussing and deciding matters regarding academic management common to all Departments on Kashiwa Campus.

### Its role is to deal with

- (1) matters referred to the Council by Departments in Kashiwa Campus
- (2) other matters regarding academic management common to all these Departments

## Kashiwa Campus Joint Academic Management Council

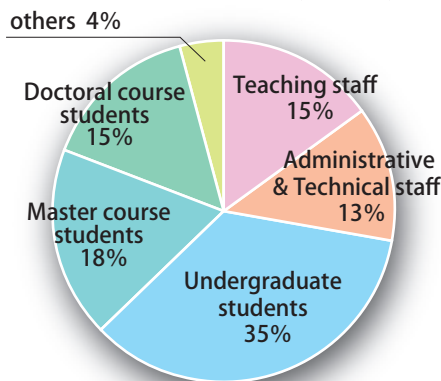


## ■ People who make up Kashiwa Campus

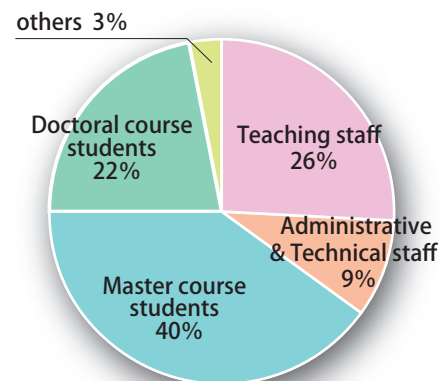
Classification	Faculty and Staff													Graduate Students and Research Students							
	Faculty / Researchers			Technical personnel			Administrative staff			Total				Master Course		Doctoral Course		Others		Total	
	Full-time	Fixed-term	Part-time	Full-time	Fixed-term	Part-time	Full-time	Fixed-term	Part-time	Full-time	Fixed-term	Part-time		GSFS		GSFS		GSFS		GSFS	
Graduate School of Frontier Sciences	182	94	38	0	0	22	22	18	135	204	112	195	511	928		479		82		1,489	0
Institute for Cosmic Ray Research	46	37	2	8	0	21	11	14	22	65	51	45	161	37		23				60	0
Institute for Solid State Physics	79	49	9	29	0	11	12	9	47	120	58	67	245	47	42	47	17	1	5	95	64
Atmosphere and Ocean Research Institute	63	55	6	14	0	26	19	9	58	96	64	90	250	78	23	46	19	6	2	130	44
Center for Spatial Information Science	11	17	6	0	0	1	0	2	12	11	19	19	49	35	29	12	25	1	4	48	58
Kavli Institute for the Physics and Mathematics of the Universe, UTIAS	24	57	1	0	0	2	11	12	10	35	69	13	117							0	0
Environmental Science Center, Kashiwa Branch	2	0	0	0	0	0	0	0	1	2	0	1	3							0	0
Information Technology Center	3	2	0	7	0	0	0	2	1	10	4	1	15							0	0
Institute of Gerontology	1	3	0	0	0	0	0	0	1	1	3	1	5							0	0
Future Center Initiative	0	0	5	0	0	2	0	2	4	0	2	11	13							0	0
The University of Tokyo Archives	2	0	1	0	0	0	0	0	1	2	0	2	4							0	0
Institute of Industrial Science	8	10	1	1	0	5	2	0	5	11	10	11	32	17	0	9	3	2	1	28	4
Health Services Center, Kashiwa Branch	0	0	0	2	0	1	1	0	0	3	0	1	4							0	0
Kashiwa Library	0	0	0	0	0	0	5	0	2	5	0	2	7							0	0
International Education Support Office Kashiwa Branch	0	0	0	0	0	0	0	1	1	0	1	1	2							0	0
Research Center Support Office / Kashiwa	0	0	0	0	0	0	3	0	4	3	0	4	7							0	0
Kashiwa Administration Department Center	0	0	0	0	0	10	30	1	22	30	1	32	63							0	0
<b>Total</b>	<b>421</b>	<b>324</b>	<b>69</b>	<b>61</b>	<b>0</b>	<b>101</b>	<b>116</b>	<b>70</b>	<b>326</b>	<b>598</b>	<b>394</b>	<b>496</b>	<b>1,488</b>	<b>1,142</b>	<b>616</b>	<b>92</b>	<b>1,850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

\*Number of faculty and students are the numbers as of May 1st, 2020.

## ■ People who make up The University of Tokyo (39,557)



## ■ People who make up Kashiwa Campus (2,842)



\*All numbers as of May 1, 2020.

\*496 part-time staffs not included.

\*Others are specialists and researchers.



# Facilities at Kashiwa Campus



Transdisciplinary Sciences, GSFS



Biosciences, GSFS



Environmental Studies, GSFS

## ■ Graduate School of Frontier Sciences (GSFS)

### Division of Transdisciplinary Sciences

- Department of Advanced Materials Science
- Department of Advanced Energy
- Department of Complexity Science and Engineering

### Division of Biosciences

- Department of Integrated Biosciences
- Department of Computational Biology and Medical Sciences

### Division of Environmental Studies

- Department of Natural Environmental Studies
- Department of Ocean Technology, Policy, and Environment
- Department of Environment Systems
- Department of Human and Engineered Environmental Studies
- Department of Socio-Cultural Environmental Studies
- Department of International Studies
- Graduate Program in Sustainability Science-Global Leadership Initiative

### Research Center

- Life Science Data Research Center

## ■ Institute for Cosmic Ray Research (ICRR)

**[International Joint Usage/Research Center, MEXT\*]**

### Research Divisions

- Neutrino and Astroparticle Division
- High Energy Cosmic Ray Division
- Astrophysics and Gravity Division

### Research Facilities

- Kamioka Observatory (Kamioka-cho, Hida City, Gifu)
- KAGRA Observatory (Kamioka-cho, Hida City, Gifu)
- High Energy Astrophysics Facility in Canarias (Las Palmas de Gran Canaria, Spain)
- Research Center for Cosmic Neutrinos
- Norikura Observatory (Takayama City, Gifu)
- Akeno Observatory (Hokuto City, Yamanashi)

## ■ Institute for Solid State Physics (ISSP)

**[Joint Usage/Research Center, MEXT\*]**

### Research Divisions

- Division of Condensed Matter Science
- Division of Condensed Matter Theory
- Division of Nanoscale Science
- Social Cooperation Programs
- Functional Materials Group
- Quantum Materials Group

### Research Facilities

- Materials Design and Characterization Laboratory
- Neutron Science Laboratory
- International MegaGauss Science Laboratory
- Center of Computational Materials Science
- Laser and Synchrotron Research Center

## ■ Atmosphere and Ocean Research Institute (AORI)

**[Joint Usage/Research Center, MEXT\*]**

### Research Divisions

- Division of Climate System Research
  - Department of Climate System Modeling
  - Department of Climate Variability Research
- Division of Ocean-Earth System Science
  - Department of Physical Oceanography
  - Department of Chemical Oceanography
  - Department of Ocean Floor Geoscience
- Division of Marine Life Science
  - Department of Marine Ecosystem Dynamics
  - Department of Marine Bioscience
  - Department of Living Marine Resources
- Division of Integrated Ocean Research

### Research Centers

- International Coastal Research Center
- Center for International Collaboration
- Center for Earth Surface System Dynamics
- Analytical Center for Environmental Study

\*Ministry of Education, Culture, Sports, Science and Technology



Institute for Cosmic Ray Research (ICRR)



Institute for Solid State Physics (ISSP)



Atmosphere and Ocean Research Institute (AORI)



Kashiwa Research Complex



Kashiwa Research Complex 2



Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), The University of Tokyo Institutes for Advanced Study (UTIAS)

■ **Center for Spatial Information Science**  
[Joint Usage/Research Center, MEXT\*]

The aim of the Center for Spatial Information Science (CSIS) is to promote the research in diverse fields of spatial information science. For that purpose, it provides various services to the community of researchers, including the service to allow them to use a variety of spatial data collected at the center.

■ **Environmental Science Center, Kashiwa Branch**

Kashiwa Branch of Environmental Science Center performs both research and education on environmental conservation and safety management. It also supervises management, treatment, and disposal of hazardous wastes generated on Kashiwa Campus.

■ **Information Technology Center**  
[Joint Usage/Research Center, MEXT\*]

The Information Technology Center (ITC) is one of the largest supercomputer centers in Japan. ITC operates three large-scale supercomputers with approximately 2,000 users, where 50% of them are outside of the university. ITC's main mission is providing services to support these users. Research and education related to large-scale scientific simulations are conducted. Moreover, research and development for next-generation's supercomputers are performed.

■ **Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), The University of Tokyo Institutes for Advanced Study (UTIAS)**

Kavli IPMU, selected by MEXT for the World Premier International Research Center Initiative, is a multi-disciplinary research institute aiming at studying dark energy, dark matter, and unified theories (such as superstring theories and quantum gravity). The mission of Kavli IPMU is to understand the origin and evolution of the universe through synergetic efforts in mathematics, physics, and astronomy.

■ **Institute of Industrial Science**

Institute of Industrial Science (IIS), The University of Tokyo, is one of the largest university-attached research institutes in Japan, covering almost all the areas of engineering disciplines. At Large-Scale Experiment and Advanced-Analysis Platform (LEAP) that is a part of IIS, large-scale and practical research that cannot be conducted on Komaba II Campus is pursued, using large-scale facilities such as large vibration stands, ocean engineering basin, and experimental fields. Also, comprehensive and innovative research is conducted fusing advanced data analysis, modeling, simulations, etc.

■ **Institute of Gerontology (IOG)**

The Institute of Gerontology (IOG) is a multi-disciplinary research institute which aims to first collect and organize the various knowledge and technology regarding individual as well as aging population into the science of "Gerontology", and then further this science. The mission of IOG is to confront the various challenges facing an aging society from a multi-disciplinary perspective and offer new, viable solutions thereby effectively using what is learned, adding value, and returning it back into society.

■ **Future Center Initiative**

Future Center Initiative facilitates a commercialization of research products of The University of Tokyo through social experiments in Kashiwa area. Kashiwanoha Campus Station Satellite is used as an interchanging facility of academic and private organizations.

■ **International Education Support Office Kashiwa Branch (Kashiwa International Office)**

Kashiwa International Office (KIO) strives to make the transition to life on Kashiwa Campus as smooth and comfortable as possible for international students and researchers. In addition to providing general information about life on and around Kashiwa campus, KIO provides support for obtaining appropriate accommodation. KIO also promotes internationalization of the campus by arranging English classes and sponsoring cultural exchange events on and around campus.

■ **Division for Health Service Promotion (Kashiwa Health Service Center)**

The Kashiwa Health Service Center provides health management services and medical care for the students, faculties, and researchers at Kashiwa Campus.

■ **Kashiwa Library**

Kashiwa Library is the main library on Kashiwa Campus, and provides academic information to students, faculty, and researchers. It fulfills the function as the back number center of natural science journals for all U Tokyo campuses. Kashiwa Library also actively cooperates with the community through special events and other activities.

■ **The University of Tokyo Archives**

The University of Tokyo Archives maintains records generated by the university and relating to its history. Through the preservation and the exploitation of our collections, we support to increase the value of the university and aim to establish a new academic information infrastructure.



Research and Testing Complex I, Institute of Industrial Science (IIS)



Kashiwa Library



Kashiwanoha Campus Station Satellite





## Community partnerships, industry-academia cooperation, and international activities at Kashiwa Campus

The spirit of transdisciplinarity is the driving force in new industry creation and urban revitalization based on the collaboration of Chiba Prefecture, Kashiwa City, Nagareyama City, and The University of Tokyo that has brought an academic center, Kashiwa Campus, back to the regional community. The University actively promotes the transfer of technology to industry, and is making great strides in internationalizing the campus.

### ■ Open Campus

An open campus program is held on the last Friday and Saturday of October every year. Some 8,000 people participate in open campus events that include visiting research laboratories and touring large-scale experiment facilities.

### ■ Kashiwa2 Cooperation Hub

A facility for open innovation laboratories, incubation laboratories, and Design-Led X Platform of Institute of Industrial Science. Collaborations with enterprises and local governments are going to be performed to create new industries in the open innovation laboratories.

### ■ Kashiwa Library Club

Kashiwa Library Club supports activities of Kashiwa Library at The University of Tokyo, and also promotes exchange among members, as well as between members and library staff. Anyone who has graduated from high school and who agrees with the purpose of the club is eligible for membership. Club members may borrow open-stack books, and also receive announcements of special library events.

### ■ Urban Design Center Kashiwa-no-ha (UDCK)

Urban Design Center Kashiwa-no-ha was established as a joint research center of The University of Tokyo, Chiba University, Kashiwa City, Mitsui Fudosan Co., Ltd., The Kashiwa Chamber of Commerce and Industry, and the regional community (Tanaka Regional Furusato Committee), and Metropolitan Intercity Railway Company. It is located in front of Kashiwanoha Campus Station, and operates pilot programs and seminars based on research achievements and ideas from the universities.



Open Campus



Kashiwa2 Cooperation Hub



Urban Design Center Kashiwa-no-ha (UDCK)



Kashiwa Library

### ■ Public Lectures

With the cooperation of Kashiwa City and the Kashiwa Chamber of Commerce and Industry, The University of Tokyo holds lectures open to the public, inviting Nobel Prize winners and other notable speakers.

### ■ University Consortium Tokatsu

University Consortium Tokatsu is an organization established to contribute to the further development of universities and local communities in the Tokatsu area which includes Kashiwa, Abiko, Nagareyama, Noda, and Matsudo. The University Consortium Tokatsu promotes closer collaboration and deeper mutual exchanges between and among public organization and universities in the Tokatsu area. The University of Tokyo is a member of University Consortium Tokatsu.

### ■ Cooperation with the Tokatsu Techno Plaza

Tokatsu Techno Plaza, established by Chiba Prefecture, is an organization that provides support for corporate research and development in the prefecture. The University of Tokyo participates in the following projects:

#### • University Research Exchange Salon

At this workshop, researchers from the University among others provide lectures and consultation to people from the corporate and government sectors about new technology and new product development. The University of Tokyo sends a lecturer and consultant to this workshop.

#### • Summer Science Class

This class educates children on different views of science, and teaches the importance and joy of making things with their hands. The University of Tokyo sends an instructor to this class.

### ■ Cooperation with the Todai Kashiwa Venture Plaza

The Todai Kashiwa Venture Plaza was established by the Organization for Small and Medium Enterprises and Regional Innovation Japan. It provides support to small and medium venture firms that aim to research and develop new products and new technology or to enter new technology fields based on university discoveries and inventions. The University of Tokyo cooperates with many of the firms involved.

### ■ Sawayaka Chiba Kenmin Plaza

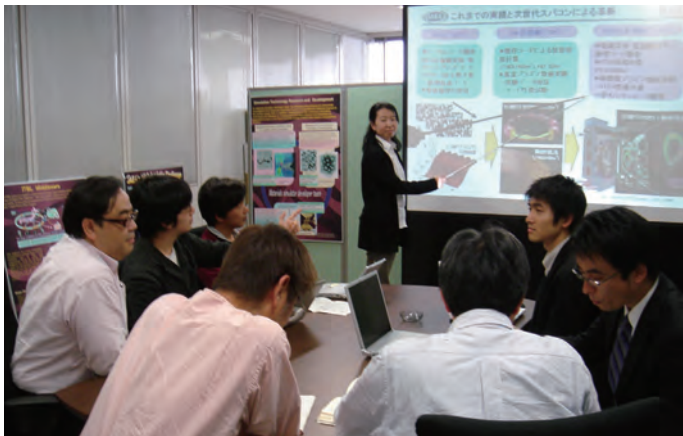
Sawayaka Chiba Kenmin Plaza is a prefectural complex facility for lifelong learning as well as art and culture. The University of Tokyo sends a lecturer for their Kashiwanoha Academia Lecture, and also provides lectures and tours about advanced technologies and environment concerns.

### ■ Cooperation with the Japan Atomic Energy Agency

A Researcher-in-Residence from The Center for Computational Science & e-Systems at the Japan Atomic Energy Agency is always on the Kashiwanoha Station Campus and promotes joint research on high technology computational science toward complexity phenomena of materials, structures, and fluids. The University of Tokyo cooperates in growing human resources in supercomputing and its application fields.

### ■ International Exchange Activities

Kashiwa Campus is defined as the international base of The University of Tokyo. The International Education Support Office Kashiwa Branch assists students and researchers from abroad concerning visa procedures, housing information, and a variety of other services as well as acting as a contact to regional municipalities. Additionally, the International Lodge (Kashiwa Lodge) opened on Kashiwa II Campus in 2010. The University is planning the development of an “international village for all disciplines”. The idea is that foreign students and researchers from all over the world come together to exchange ideas and learn in an environment where learning and living are in the same place.



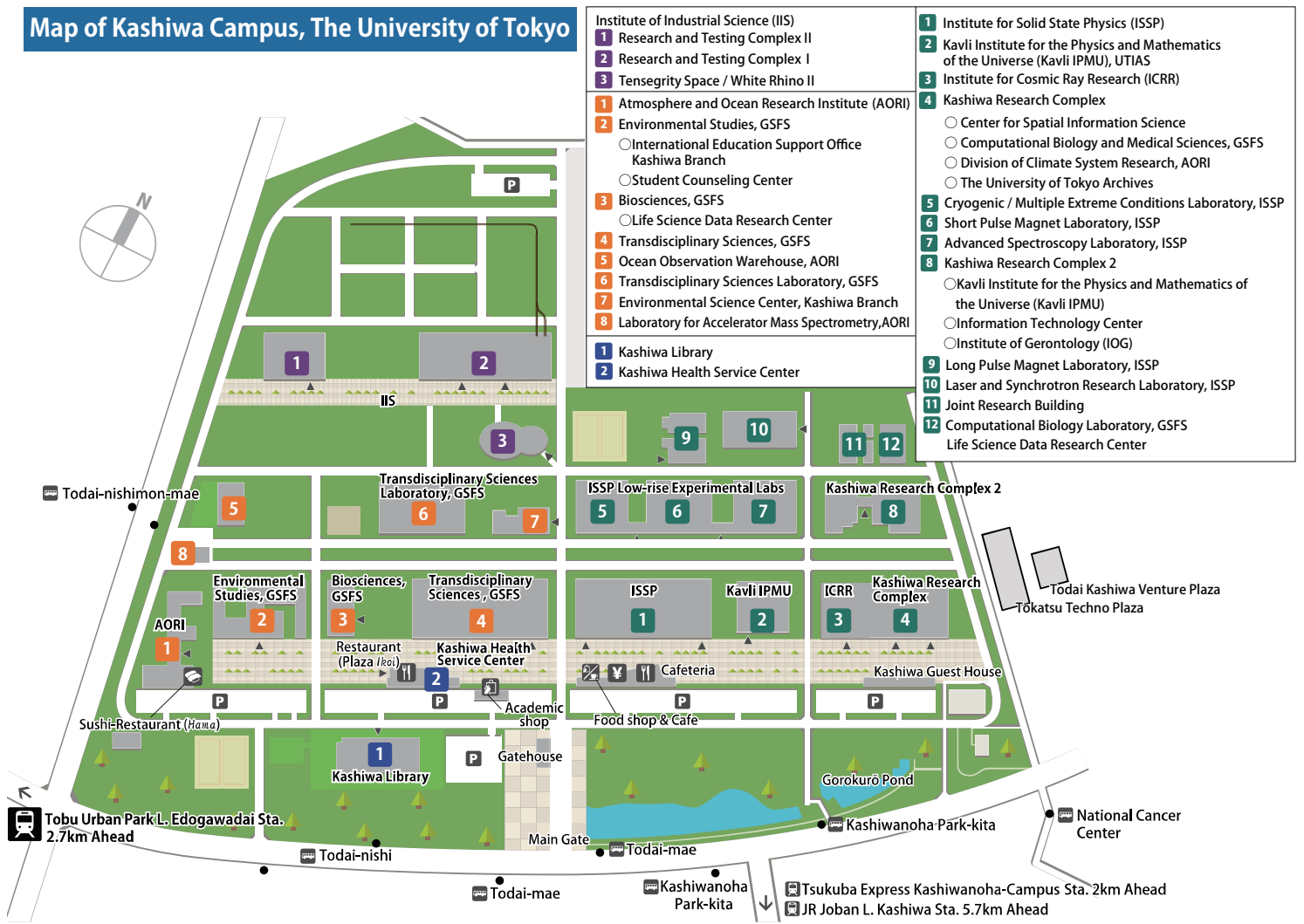
Joint Research on High Technology Computational Science with the Japan Atomic Energy Agency



Calligraphy Workshop for International Students and Researchers



# Map of Kashiwa Campus, The University of Tokyo



## Access to Kashiwa Campus

- Kashiwanoha-Campus Station West Exit (Tsukuba Express Line)
  - <Tobu Bus>
  - 西柏03 bound for Nagareyama-ōtakanomori Station East Exit
    - get off at Todai-mae, Todai-nishi stop (Some terminate at Todai-nishi stop)
  - 西柏04 bound for Edogawadai Station East Exit (via National Cancer Center)
    - get off at Todai-mae, Todai-nishi stop
  - 西柏10 bound for Edogawadai Station East Exit (via Midoridai-chuo)
    - get off at Todai-mae, Todai-nishi, Todai-nishimon-mae stop
  - <on foot> about 25-minute walk
- Kashiwa Station West Exit (JR Joban Line)
  - <Tobu Bus>
  - 西柏01 bound for National Cancer Center (via Kenmin Plaza)
    - get off at Todai-nishi, Todai-mae stop
  - 柏44 bound for National Cancer Center (via Customs Training Institute)
    - get off at National Cancer Center stop
- Edogawadai Station East Exit (Tobu Urban Park Line)
  - <Tobu Bus>
  - 西柏04 bound for Kashiwanoha-Campus Station West Exit (via National Cancer Center)
    - get off at Todai-nishi, Todai-mae stop
  - 西柏10 bound for Kashiwanoha-Campus Station West Exit (via Midoridai-chuo)
    - get off at Todai-nishimon-mae, Todai-nishi, Todai-mae stop
- Joban Highway : at Kashiwa IC exit to Chiba direction to take Route 16 for 500m and turn right at the "Toyofuta Industrial Estate Entrance" crossing

## Access to Kashiwa II Campus

- Kashiwanoha-Campus Station West Exit (Tsukuba Express Line)
  - <Tobu Bus>
  - 西柏02 bound for Kashiwa Station West Exit or 西柏05 for Takada-shako
    - get off at Kashiwanoha Park-chuo, Kashiwanoha high school-mae stop
  - <on foot> about 15-minute walk
- Kashiwa Station West Exit (JR Joban Line)
  - <Tobu Bus>
  - 西柏01 bound for National Cancer Center (via Kashiwanoha Park)
    - get off at Kashiwanoha high school-mae stop
  - 西柏02 bound for Kashiwanoha-Campus Station West Exit or 柏44 for National Cancer Center (via Customs Training Institute)
    - get off at Kashiwanoha high school-mae, Kashiwanoha Park-chuo stop

## Access to Kashiwanoha Station Campus

- Kashiwanoha-Campus Station West Exit (Tsukuba Express Line) 1 minutes' walk

