

### Message from the President



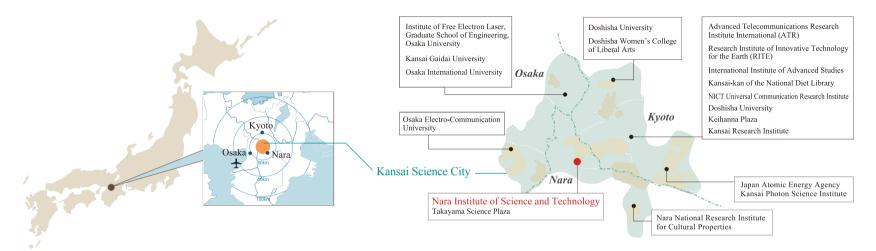
Science and technology are currently facing a revolutionary, global era where rapid change is being seen throughout diverse fields. NAIST has focused on world-leading research in the three fields of information, biological, and materials science, and their interdisciplinary areas since its foundation. We aim to push forward the forefronts of science and technology, actively producing talented researchers and engineers who respond flexibly to developments in today's fast-evolving world. In order to evolve as a leader in graduate education, NAIST has transformed its educational structure to strengthen existing programs and stimulate interdisciplinary pursuits.

As President, I believe it is important to encourage all faculty, staff, and students to outgrow their limits with a spirit of challenge. NAIST strives to achieve a brighter future for both the local and global community through new scientific discoveries and technological innovations.

Naokazu Yokoya President

### About NAIST

NAIST was founded in 1991 as a Japanese national university consisting solely of graduate schools in the three areas of information science, biological sciences, and materials science to redefine graduate-level education. In 2018, to push forward the boundaries of advanced science and technology, the three graduate schools were merged to create the Graduate School of Science and Technology, composed of Education Programs in the original three research areas and the four interdisciplinary areas emerging among them. At present, over 1,000 students—roughly 25% from overseas—are supervised by 200 NAIST faculty members. With its cutting-edge facilities and a 5 to 1 student-to-faculty ratio, NAIST's world-leading research and education are a direct result of its rich, global environment and supportive infrastructure. Moreover, the outstanding achievements of NAIST's faculty and students are shared world-wide through patents, licenses, spin-off companies, and active exchange with overseas partners. As a result, NAIST has quickly established itself as a world-class research and education center where young scientists and engineers become tomorrow's global leaders.



### Location

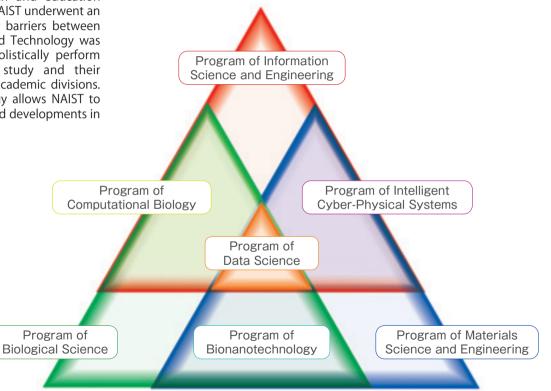
NAIST is located in Ikoma City, in Japan's historic Nara Prefecture. Home of the first official capital of Japan, Nara Prefecture has an incredibly rich history as a center for international trade and relations. In addition to its prolific ancient heritage, Nara Prefecture is also conveniently located in close proximity to Kyoto and Osaka, and just 90 minutes from Kansai International Airport.

### Kansai Science City

NAIST is located in the area called "Kansai Science City" (also known as "Keihanna") a national science project constructed in the Kansai Hills area, extending into three prefectures: Kyoto, Osaka, and Nara. The aim of Kansai Science City is to establish a new base for creative, international, interdisciplinary and inter-industrial academic research through the close cooperation of industrial, governmental, and academic organizations. More than 140 prestigious companies and institutions, including Kyocera, Panasonic, Advanced Telecommunications Research Institute International (ATR), the National Institute of Information and Communications Technology (NICT), and the Research Institute of Innovative Technology for Earth (RITE) now operate in Kansai Science City and have made great contributions to research and development.

## Transformation to One Graduate School

Since its foundation, NAIST has led graduate education in the areas of information science, biological sciences, and materials science in Japan and throughout the world. Based on the research and education achievements of the original three graduate schools, NAIST underwent an organizational transformation in April 2018 to lower barriers between fields of studies. The Graduate School of Science and Technology was established with seven Education Programs that holistically perform research and education in the three fields of study and their interdisciplinary areas across the lines of traditional academic divisions. This new Graduate School of Science and Technology allows NAIST to further adapt to the ever-changing needs of society and developments in science and technology.



# **Multidisciplinary-Focused Educational Programs**

Program of Information Science and Engineering
Program of Computational Biology
Program of Biological Science
Program of Bionanotechnology
Program of Materials Science and Engineering
Program of Intelligent Cyber-Physical Systems
Program of Data Science

NAIST produces creative leaders in research and skilled engineers to be active in domestically and abroad, pivoting around information, biological and materials sciences and focusing on their interdisciplinary fields that evolve from frontier science.

**Master's Program** develops human resources with specialized knowledge and training, a wide understanding of the related interdisciplinary fields, and the ability to approach issues and phenomena holistically to undertake the application of science and technology and its innovation throughout society.

**Doctoral Program** fosters international awareness, self-reliance, and independence and develop researchers and skilled engineers with high ambitions that will advance the boundaries of science and technology taking leading roles throughout international industry, academia and government.

## NAIST' s Guiding Concept: Education through Research

NAIST pursues research and education in an environment of interdisciplinary and international cooperation. Students and researchers have access to world-class facilities in an exciting atmosphere promoting individual achievements, collaboration across traditional research fields, and flexible course curricula.

**Research-Focused Environment:** NAIST was established without undergraduate programs to allow the faculty to commit themselves towards achieving superior research results to lead their respective fields.

**Research-Based Education:** Through the research of our accomplished faculty and collaboration with industry and academic partner institutions, NAIST's students learn both in traditional settings and through hands-on experience at the forefronts of science and technology.

## **Innovative Research and Education Programs**

NAIST constantly strives to renew its research and education programs towards producing science and technology researchers and engineers prepared to meet the demands facing tomorrow's global scientific community. These programs are regularly awarded external funding for their wide-ranging benefits.

#### Top Global University Project

In October 2014, NAIST was one of 37 universities selected to the Top Global University Project funded by the Ministry of Education, Culture, Sports, Science and Technology (MEXT). For a period of ten years, MEXT supports outstanding universities in their efforts to reform institutional governance and collaborate with top universities worldwide in order to strengthen international competitiveness. Through the Top Global University Project, NAIST has committed to enhancing its international graduate courses by including a double degree scheme, developing a new model for graduate education based on world-class research, reforming institutional governance and strategic agility, creating a campus environment that supports trans-disciplinary education and cultural diversity, and reorganizing its three graduate schools into a single entity toward establishing new, flexible research groups.



#### **Program for Promoting the Enhancement of Research Universities**

In October 2013, NAIST was one of the 22 universities selected for inclusion in another prestigious MEXT initiative, the Program for Promoting the Enhancement of Research Universities, which aims to improve the research capabilities of universities and research institutions.

Through this program, NAIST continues to conduct frontier-opening research while expanding into new interdisciplinary fields in science and technology. With the establishment of a university-wide strategic research infrastructure, NAIST endeavors to leverage its resources to attain new research materials and facilities necessary for advanced research, to disseminate its achievements and human resources around the globe, and to further expand its global research and education network in order to contribute to the overall advancement of science and technology. Projects being supported through this program include young researcher and technology exchange programs, international researcher and technology exchange programs and the establishment of joint laboratories both domestically and abroad.

# **NAIST Numbers**

NAIST is an institute focused solely on graduate school education based on its research achievements in the leading fields of science and technology.

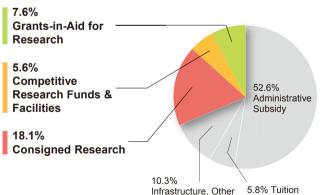
		(As of May 2018)		
NAIST Student Enrollment				
Master's	Doctoral	Research students, etc.		
767	293	120		
Total: 1180 (23% International students)				

1		(As of May 2018)	
NAIST Faculty and Staff			
Executive administration	Faculty	Staff	
8	202	164	
Total: 374 (13% International faculty and staff)			

### High Percentage of External Revenue

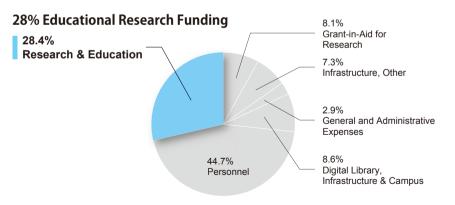
Revenue FY2017 Total 9.6 billion (JPY)

### 31% External Revenue



### High Allocation of Educational Research Funding

Expenses FY2017 Total 9.0 billion (JPY)



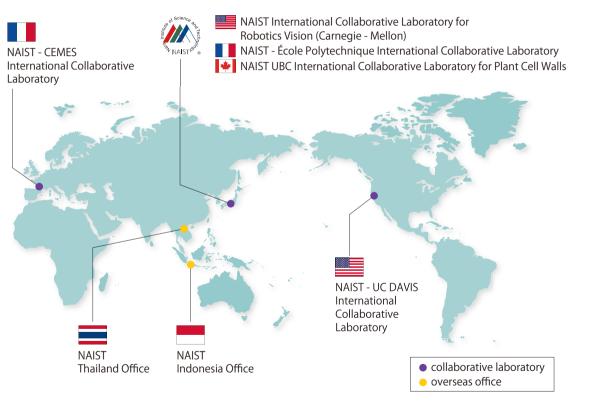
# NAIST's Global Network for Education and Research

### Overseas offices and collaborative laboratories

In order to fully support NAIST's growing network of researchers, alumni and collaborative partners around the globe, NAIST has established international collaborative laboratories on-campus and overseas, and maintains overseas offices.

Currently there are five collaborative laboratories operating to facilitate research pursuits at a level only made possible by the cooperation of talented researchers at an international scale.

Overseas offices are managed to promote education and research collaboration not only with NAIST partner institutions but also with NAIST alumni who are active throughout Asia. Additionally, the offices have become bases for recruiting efforts to ensure the successful recruitment of talented students from various countries.



# A Comprehensive Approach to Global Education

NAIST has constantly pursued educational opportunities for students to expand their horizons globally. The following programs are currently integral parts of NAIST's educational and research efforts through government funding for strategic enhancement. These are aimed at further developing our research network abroad while accepting talented researchers to foster campus growth to broaden our international community ties. As a world-leading research university, NAIST is committed to promote globally active education and research to extend our presence ever farther in diverse fields.

#### Alliance for ed cational enhancement

NAIST focuses on the development of outstanding scholars, researchers and technicians that are prepared for the challenges of today's borderless science and technology fields. Our students go abroad for unique educational and research experiences to broaden their perspectives and develop their careers at the global level, while internationally distinguished scholars and researchers are actively invited to contribute to the growth of our educational programs and strengthen global research networks.

#### Diversity and obal campus promotion

In order to successfully expand NAIST's globally diverse community of students, researchers, and scholars to strengthen its international network, NAIST emphasizes the recruiting of outstanding international students and researchers from all over the world. Our students are offered abundant academic opportunities, financial assistance, and career development support while at NAIST, and our international faculty is offered support throughout their stays at NAIST, for both themselves and their families.

### Collaboration for acad mic mobility

To promote cutting-edge research in information, biological and materials sciences, and their interdisciplinary advancements, while also achieving prosperous research networks, NAIST supports mobility for researchers who have studied or engaged in long-term research at NAIST and are involved in ongoing collaborative research. Additionally, academic partnerships through collaboration are key to increasing valuable opportunities for our students, researchers, and scholars.

# International Activity Highlights

NAIST is actively engaged in globalization efforts to promote its global standing and to enhance its on-campus international environment. Extensive collaboration with prestigious overseas partner institutions serves as a solid foundation for exchanging researchers, staff, and students worldwide each year. NAIST's Division for Global Education, the office leading our globalization initiatives, coordinates events and activities as highlighted below:



International Student Lab Internship at NAIST (from Chulalongkorn University)



Visiting student group touring NAIST (from Lieden University)



"NAIST Tea Time" Global Campus Community event presentation



The Annual NAIST International Friendship Meeting



Visiting international students and guests at NAIST's Cybernetics and Reality Engineering Lab



Presentation at the NAIST Bio International Student Workshop



NAIST Faculty Development Program at UC Davis (USA)



NAIST Staff Development Program briefing session

# **NAIST Global Numbers**

### International Student Enrollment

						(AS OI	October 2016)
China	65	Korea	3	Ethiopia	1	USA	1
Malaysia	34	Nepal	2	Egypt	1	Germany	5
Indonesia	30	India	1	Burkina-Faso	1	France	7
Thailand	31	Pakistan	1	Turkey	1	Belgium	1
Vietnam	22	Côte d'Ivoire	2	Paraguay	2	UK	1
Philippines	24	Tanzania	1	Ecuador	1	Spain	1
Bangladesh	8	Mozambique	2	Guatemala	1	Russia	2
Taiwan	6	Gambia	1	Mexico	1	Australia	1
						Total	261

### NAIST Researcher Exchange

Inbound	Outbound		
197	579		

(Fiscal 2017)

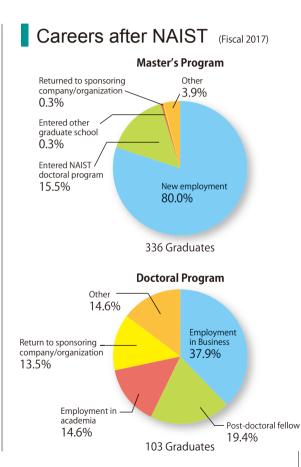
### NAIST Students Abroad

More than 1/3 of NAIST students, both Japanese and international, traveled abroad in FY 2017 for research collaboration, symposiums, internships, etc.

350/1063

(Fiscal 2017)

(Ac of Octobor 2019)



### Agreements on Academic Exchange with 101 Overseas Institutions in 28 Countries/Regions (as of October 2018)

Institution Level Agreements

	Universitas Gadjah Mada	India	Indian Institute of Technology, Bombay	
Indonesia	Bogor Agricultural University	Bangladesh	Bangladesh University of Engineering and Technology	
	Universitas Indonesia		RWTH Aachen University	
	Hasanuddin University		Justus Liebig University Giessen	
	Institut Teknologi Bandung	Germany	Karlsruhe Institute of Technology	
	Jenderal Soedirman University		University of Regensburg	
	Mahidol University		Coburg University of Applied Sciences and Arts	
	Chulalongkorn University		University Paul Sabatier	
Thailand	Kasetsart University		Ecole Polytechnique	
	Chiang Mai University		Ecole Normale Superieure Paris-Saclay	
	King Mongkut's University of Technology Thonburi (KMUTT)	France	University of Lille, Science and Technology (UL1)	
Korea	Gwangju Institute of Science and Technology		University Paris-Est Marne-la-Vallee	
	Hanbat National University		Telecom ParisTech	
	Pohang University of Science and Technology		Sorbonne University	
	National Chiao Tung University		Université Paris-Saclay	
	Southern Taiwan University of Science and Technology	Belgium	Université Catholique de Louvain	
	The National Taiwan University of Science and Technology	Russia	The St. Petersburg State Polytechnical University	
	Institute of Genetics and Developmental Biology, Chinese Academy of Sciences	Italy	University of Cagliari	
China	Tianjin University of Technology	Italy	University of Trento	
China	Liaoning University	UK	University of Edinburgh	
	Soochow University	UK	Department of Statistical Science, University College London (UCL)	
Dhilippipor	Ateneo de Manila University	Macedonia	University of Information Science and Technology "St. Paul the Apostle" (UIST)	
Philippines	University of the Philippines	Kenya	University of Nairobi	
	Hanoi University of Science, VNU	Senegal	Cheikh Anta Diop University	
Vietnam	VNU University of Engineering and Technology		University of California Davis	
vietnam	Hue University of Sciences (HUSC)	USA	University of Hawai'i at Mānoa	
	University of Science and Technology of Hanoi (USTH)	USA	University of California, San Diego	
Malaysia	Universiti Sains Malaysia		Mississippi State University	
	University of Malaya	Canada	Queen's University at Kingston	
	Universiti Putra Malaysia		University of Technology Sydney	
	Universiti Teknologi Malaysia	Australia	Macquarie University	
	Universiti Tunku Abdul Rahman		The University of Newcastle	
	Universiti Kebangsaan Malaysia (UKM)	New Zealand	Unitec Institute of Technology	

### School/Department Level Agreements

Information Science		Biological Science			
Indonesia	sia Faculty of Industrial Technology, Institut Teknologi Sepuluh Nopember (FTI-ITS)		Institute of Biotechnology, Vietnam Academy of Science and Technology		
Korea	Graduate School of Culture Technology/Department of Industrial Design, Korea	Bangladesh	North South University, School of Health and Life Sciences		
	Advanced Institute of Science and Technology	Singapore	Temasek Life Sciences Laboratory Limited (TLL)		
	Graduate School of Electronics Engineering, Kyungpook National University	USA	Biotechnology Institute, University of Minnesota		
China	College of Computer Science and Electronic Engineering, Hunan University	Canada	University of British Columbia, Faculty of Science		
	Department of Computer Science, City University of Hong Kong	Materials Science			
	School of Computer Science and Information Technology, Northeast Normal University	Taiwan	Institute of Biophotonics, National Yang-Ming University		
	School of Information Science and Engineering, Yunnan University	China	School of Chemistry and Chemical Engineering, Nanjing University		
	Institute of Information Technology, Vietnam Academy of Science and Technology	Vietnam	Institute of Materials Science, Vietnam Academy of Science and Technology		
Vietnam	Faculty of Electronics and Telecommunications, VNUHCM-University of Science	India	Indian Institute of Science Education and Research, Thiruvananthapuram		
	Department of Electronic and Telecommunication Engineering, University of	Singapore	School of Materials Science and Engineering, Nanyang Technological University (NTU)		
	Science and Technology DUT	Switzerland	University of Zurich, Faculty of Science		
India	KIIT College of Engineering	Germany	Faculty of Engineering, RheinMain University of Applied Sciences		
	Faculty of Engineering and Computer Science, University of ULM	Hungary	PHD School in Physics, University of Debrecen		
Cormony	Department of Informatics Technical University of Munich (IN-TUM)		Faculty of Science, Leiden University		
Germany	Department of Electrical and Computer Engineering Technical University of	Netherlands	Faculty of Electrical Engineering, Mathematics and Computer Science, Delft		
	Munich (ECE-TUM)		University of Technology		
Finland	Department of Information Processing Science, Faculty of Science, University of Oulu	USA	Macromolecular Science & Engineering program, University of Michigan		
Timana	University of Turku, Faculty of Medicine				
France	Telecom SudParis				
	ESIEE Paris				
	École nationale supérieure d'ingénieurs de Caen				

## **Admission Policy**

NAIST eagerly promotes admission of students from both Japan and overseas who have strong basic academic capabilities regardless of their previous academic backgrounds.

Additionally, the university actively admits researchers, engineers and others currently working in society with strong enthusiasm for advanced scientific research and clearly defined aspirations for the future.

## **Flexible Student Acceptance**

• NAIST accepts students from various fields who are enthusiastic to learn and conduct research, and researchers / engineers who are active contributors to society.

(as of October 2018)

- · Entrance examinations take place 3 times a year
- April and October enrollment
- No comprehensive written exam, but rather a general assessment based on interviews, survey reports, etc.
- Curriculum is developed to suit students from diverse fields (basic and introductory courses, wide-ranging lectures, seminars, problem-based research, etc.)
- Flexible curriculum management (multiple faculty member guidance, exchange of credits from other universities, research guidance counselors, semester system)

## **Tuition and Fees**

	Examination	Enrollment	Tuition
Master's and doctoral program students	¥30,000	¥282,000	¥267,900/semester (¥535,800/year)
Research students	¥9,800	¥84,600	¥29,700/month
Special Research Students (Short-term exchange students)	_	_	¥29,700/month

Note: If tuition is revised, the new fees will be applicable.

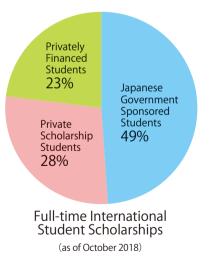
## **Scholarships**

### Japanese Ministry of Education, Culture, Sports, Science & Technology (MEXT) Scholarship

MEXT offers full scholarships to excellent overseas students and researchers to continue their studies in Japan.

### NAIST and Private Scholarships, etc.

There are numerous scholarships and grants offered exclusively to international students by NAIST and other public and private institutions.



# **Financial Support**

### Admission and Tuition Fee Exemption

International students who are unable to pay enrollment fees or tuition due to financial difficulty may apply for full or partial exemption. (MEXT scholarship students are exempt from both fees.)

### Teaching / Research Assistantships

NAIST actively supports students through teaching and research assistantships where they also gain valuable experience in education and research.

### Dormitories

### Affordable On-campus Housing

All full-time international students are eligible for on-campus housing with free internet access. Housing fees range from ¥10,000 - ¥15,000/month for single, couple, or family housing.



### Industry-Government-Academia Collaboration

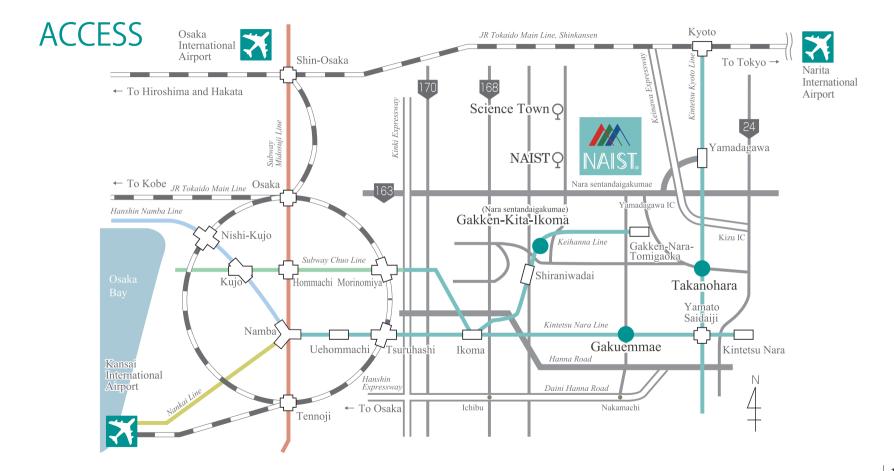
The Division for Industry-Government-Academia Collaboration engages in the active promotion of joint and commissioned research, technology transfer and other related activities, to improve NAIST's top class productivity. NAIST was selected for inclusion in the Enhancing Development of Global Entrepreneur (EDGE) program (2014-16) and then for the succeeding Exploration and Development of Global Entrepreneurship for NEXT generation (EDGE-NEXT) program (2017-2021), both funded by MEXT. Through these programs, NAIST has continuously facilitated the creation of promising new businesses to promote innovation and will continue to support start-up companies.



METI Intellectual Property Achievement Award

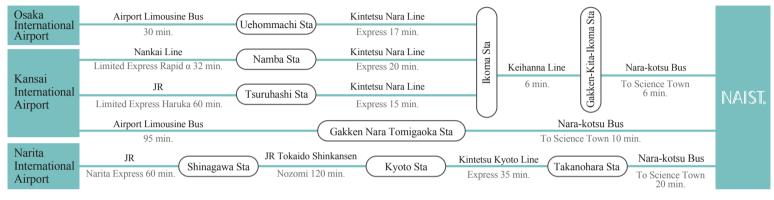


- The first university to be awarded the Intellectual Property Achievement Award by the Ministry of Economy, Trade and Industry (April 2011)
- Consistently among the highest income earning national universities (per faculty member)
- Consistently among the highest external research funding received by a Japanese institution (per faculty member; totalling roughly 3 billion yen annually)
- Consistently among the top spin-off producing Japanese universities



# **Reaching NAIST from Domestic Airports**

NAIST is only 1.5 hours away from the Osaka International Airport and the Kansai Airport



### **NAIST Offices**

Domestically NAIST has liaison offices to support academic and research activities around Japan, facilitate recruiting and enhance student career planning.



NAIST Tokyo Office



NAIST Higashi-Osaka Office

Internationally, NAIST has two overseas offices in Indonesia and Thailand to support our global network while strengthening ties with partner institutions and alumini.



NAIST Indonesia Office



NAIST Thailand Office

## **Contact information**

For inquiries concerning :





### Graduate Studies for International Students

International Student Affairs Section, International Affairs Division Email : ryugaku@ad.naist.jp Phone : 0743-72-5087

### International Researchers and Scholars

International Affairs Section, International Affairs Division Email : kokusai@ad.naist.jp Phone : 0743-72-6246

### International Partnerships

Division of Global Education, Institute for Educational Initiatives Email : kokusai@ad.naist.jp Phone : 0743-72-6243 Division of Information Science



http://isw3.naist.jp/home-en.html

Division of Biological Science



http://bsw3.naist.jp/eng/





http://mswebs.naist.jp/english/



NARA INSTITUTE of SCIENCE and TECHNOLOGY GUIDEBOOK **2019**