

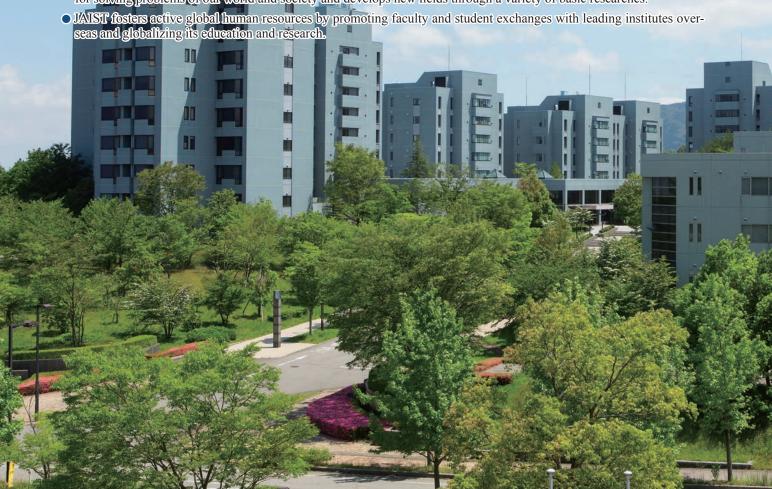
The Mission and Goals of JAIST

The Mission of JAIST

• JAIST endeavors to foster leaders capable of contributing to the making of a future world by creation of science and technology, through its most advanced education and research in an ideal academic environment.

The Goals of JAIST

- JAIST develops leaders in society or industry who hold credible expertise in the frontier science and technology, broad perspectives, high level of autonomy and communication ability, through its systematic advanced graduate education.
- JAISIT to contribute to societies with research outcomes, creates a center of excellence for advancement of researches for solving problems of our world and society and develops new fields through a variety of basic researches.



About JAIST

First Independent National Graduate University without Undergraduate Division

JAIST was founded in October 1990 as the first independent national graduate school, to carry out graduate education based on research at the highest level in advanced science and technology. JAIST aims at establishing an ideal model of graduate education for Japan. JAIST was incorporated as a National University Corporation in April 2004.

Admission Criteria for People with Diverse Backgrounds

In our admission decisions we place the most significant weight on the motivation of the student as demonstrated in the personal interview. JAIST admits highly motivated students, including advanced undergraduate students (who have completed at least three years of undergraduate study), professionals, and international students, regardless of undergraduate specialization.

Systematic Graduate Education

JAIST educates students through a carefully and systematically designed coursework-oriented curriculum, which gives students a solid foundation for their advanced research. This is different from the traditional Japanese style of graduate education, where students are trained mainly in their narrow research domains.

Development of Human Resources for Society

We train our students in a specialized field combined with interdisciplinary knowledge of related disciplines. Through our educational program students gain thorough understanding of fundamentals, and develop



problem-solving skills.

Outstanding Faculty

Our faculty members are world-class researchers. We recruit professionals with outstanding achievements at the leading edge of science and technology. They come from all over the world, from other universities, and from top industrial research and development institutions.

Collaboration with Society and Industry

JAIST works closely with the regional community, as well as industries worldwide, by promoting collaborative research and accepting commissioned research. We use various modes of cooperation including visiting faculty chairs, endowed chairs, and laboratories operated jointly with other institutions.

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President's Message



President TERANO Minoru, Ph.D.

Academic Field :
Polymer Chemistry, Polymer Science

Human Resource Development and Social Contribution Based on World Top-level Research

Pioneer the Future and Lead the World with the Cutting-edge Research and the Development of Global Human Resources Japan Advanced Institute of Science and Technology (JAIST) celebrated its 30th anniversary in October, 2020. Since its establishment, JAIST has produced world top-level research achievements in a wide range of the fields of advanced science and technology, and has developed excellent

"The Outline of Concept of Japan Advanced Institute of Science and Technology" issued in September, 1990 and called "The Yellow Book" was considered as a bible for the founding of JAIST. It set the purposes of the establishment to "fostering university researchers and developing and reeducating researchers and engineers for industry" as well as "promoting advanced basic research in the fields of advanced science and technology."

Based on the purposes of the establishment, we formulated the "The Future Vision of JAIST" as a guideline for fostering globally active human resources and aiming to become the world's top research university.

[The Future Vision of JAIST]

human resources.

Japan Advanced Institute of Science and Technology (JAIST) aims to become a world's top research university for innovation creation. While advancing the sophistication and excellence of its original research, JAIST opens up the future of science and technology and contributes to sustainable development through new co-creation based on global-scale collaborations with domestic and overseas universities, research institutes and industry.

Taking advantage of the integrated graduate school, JAIST welcomes motivated students widely from all over the world and fosters them to become global leaders who hold solid expertise in advanced science and technology with "Resilience and Cocreativity" to lead the new era.

World-class Research

With regard to research, we value the expertise of each faculty member and promote the development of new research fields and research areas through collaborations among JAIST faculty members and collaborations with researchers in Japan and overseas. In particular, Excellent Cores, the centers of excellence representing JAIST, which is highly regarded by the Ministry of Education, Culture, Sports, Science and Technology, will be evolved and developed further as Global Excellent Cores by inviting overseas researchers to develop world top-level research under more advanced international collaborations. JAIST also aims to establish its function as a research hub for advanced science and technology in the world by strengthening broad collaborations with universities, public research institutes, and corporations around the world as well as researchers in Japan and overseas, through its Research Cores and other research centers which are next to Excellent Cores. JAIST will build a network of research collaborations throughout Japan and around the world to initiate the JAIST Science Hub.

State-of-the-art Education System

We believe that students should be involved in "the creation of science and technology" in order to "foster leading human resources who can pioneer a new world through the creation of science and technology", as stated in the principle of JAIST. Therefore, in addition to the research guidance by the faculty, it is necessary to provide a systematic education consisting of the wide range of knowledge to make the guidance more effective and methodology for its practical application. Such education is the foundation for students to take active roles in society after graduation. For students, their real value is evaluated only after they have gone out into society. In order to produce excellent achievements in society, it is important and necessary for students to possess solid basic knowledge and methodology of problem solving. While maintaining the educational characteristics of JAIST that credits required for graduation can be earned from all the fields flexibly, we will continue to reform our curriculum as the integrated graduate school. We believe that the updated and fulfilling curriculum is the cornerstone of university education.

Student Recruitment and Support

With regard to student recruitment, since the number of applicants for the master's program has already reached far more than its quota, we will proceed the fulfilling and stable procedure in the future, including international students. For this reason, we will promote the acquisition of students through the cooperation with faculty members of other universities and the conclusion of agreements on admission by recommendation with universities throughout Japan. To the acquisition of doctoral program, we will dedicate our best efforts because the increase has a direct effect on the improvement of our research capabilities. Some prospective doctoral students seem to hesitate to enter the doctoral program due to financial difficulties or concern about their career paths after graduation. Therefore, we will promote drastic changes in financial support for doctoral students.

Campus Environmentally Rich in Diversity

About 40% of our students are international students from 20 countries overseas, and many of our classes are conducted in English. We believe that maintaining such an environmentally rich in diversity will be effective in fostering human resources who can play an active role on the global stage.

Recurrent Education for Working Professionals

As for the recurrent education for working professionals at our Tokyo Satellite Campus, we have a long history, centering on the program of management of technology (MOT). Currently, in addition to MOT, we are offering programs such as management of services (MOS) and IoT·AI innovation, and we accept many working professionals as regular students. From now on, we will work on accepting non-regular students in addition to the regular students through the development of a broader range of programs, such as opening seminars on specific themes, timing, and period. We have established Center for Reskill & Recurrent Education to promote this activity.

Promotion and Utilization of Industry-Academia Collaborations

With regard to industry-academia collaboration, JAIST has promoted it since early years right after its foundation. Industry-academia collaboration, which is represented by joint research with companies, has many research benefits, such as acquiring research funds and implementing research outcomes in society. If students participate in such joint research, they will have an opportunity to capture their research from a broader viewpoints, such as practicality, cost, and the treatment of intellectual property, which become significant educational benefits. Understanding the educational benefits of the industry-academic collaborations, JAIST has established a system of visiting professors to utilize their knowledge of the industrial world and ask them to be involved in education of JAIST. We are planning to ask those visiting professors to teach some introductory courses for working professionals so that we will be able to make it another special feature of JAIST education in the future.

"Matching HUB"

"Matching HÜB" is a premier event of JAIST related to industry-academia and regional collaborations leading to the innovation, which has been held continuously every year and expanded throughout Japan. The eighth event held in Kanazawa in November 2021 had about 1,400 participants including online audience. From the fourth event in 2017, a student idea contest called "Matching HUB Business Idea & Plan Competition" (M-BIP) has been held and we have enjoyed dozens of applications from all over JAPAN. Matching HUB has been introduced to Kumamoto, Otaru, Sapporo, Tokushima, and other parts of Japan. By networking them, we are contributing to the revitalization of not only the regions where the events are held but also the entire country.

JAIST will develop itself further as a world-leading research university with the mission of "promoting world top-level research, developing human resource development through it, and contributing to society through education and research. "Now, the world is in the quite serious situation by the spread of Corona-virus infection. JAIST contributes to develop the technology to overcome such world crisis.

Advanced Graduate Education and Research

JAIST welcomes talented students and researchers, regardless of their previous academic majors, not only from recent university graduates but also from people with work experience.

Research

Active Faculty

JAIST's faculty members are world-class researchers. They come from all over the world, from other academic institutions, and from leading industrial research and development institutions. JAIST holds a high rank among national universities in Japan, in terms of the number of grants and amount of funds for joint research projects and commissioned research undertaken and number of published papers per faculty member.

Facilities at the Highest Standard

The laboratories with the world class, state-of-the-art equipment provides the most functional and comfortable research environment.

Internationalized Campus Environment

About 40% of the students of JAIST are from abroad. Many international researchers visit JAIST for international conferences or stay at JAIST for joint research projects.

Education

Major Research Project and Minor Research Project

JAIST has used a supervisory system whereby, in addition to a research theme related to a major field of study "Major Research Project", students are required to take on a secondary research theme "Minor Research Project" to obtain some fundamental concepts, knowledge, and abilities from different research fields from your major field.

Introductory Courses

In order to reinforce master's-level specialized foundation, JAIST has a course group that contributes to providing a foundation for one's ability by giving understanding of the borders of interdisciplinary fields.

Tutorial Hours for Individual Consultation

Each course is held twice a week. KS/IS/MS courses are held in the morning (1st and 2nd period) and 4th period of Tuesday and Thursday. 3rd period is for the tutorial hours for the 1st period class on that day. Students can ask questions or discuss with the instructor during the tutorial hours and the time can be used for exercises, supplemental instruction etc.

History

	liotoi j				
1990	October	JAIST was founded. The School of Information Science was created.			The Center for High-performance Nature-derived Materials
1991	April	The School of Information Science was created. The Institute Library was established. The School of Materials Science was created.	2016	March	was established. The Research Center for Integrated Science was discontinued.
	April	The Center for Information Science was established.			The Institute of General Education was discontinued.
1992	April	The first group of students entered the master's program in the School of Information Science.			The Center for Advanced Education for Working Professionals was discontinued. The Research Center for Innovative Lifestyle Design was
1993	April	The Center for New Materials was established. The first group of students entered the master's program in			discontinued. The Green Device Research Center was discontinued.
		the School of Materials Science. The Center for Research and Investigation of Advanced			The Research Center for Software Verification was discontinued. The Research Center for Software Verification was discontinued.
1994	April	Science and Technology was established. The first group of students entered the doctoral program in			The Research Center for Simulation Science was discontinued.
	June	the School of Information Science. The Health Care Center was established.			The Education and Research Center for Trustworthy e- Society was discontinued.
1995	April	The first group of students entered the doctoral program in the School of Materials Science.			The Center for Regional Innovation was discontinued. The Center for Intelligent Robotics was discontinued.
1996	April May	The Institute Library opened. The School of Knowledge Science was created.			The Research Center for Bio-Architecture was discontinued.
1998	April	The first group of students entered the master's program in the School of Knowledge Science.			The Research Center for Highly Environmental and Recyclable Polymers was discontinued.
2000	April	The Center for Knowledge Science was established. The first group of students entered the doctoral program in		April	The Graduate School of Advanced Science and Technology was created, as a result of a reorganization of the
2001	November	the School of Knowledge Science. The Research Center for Distance Learning was estab-			School of Knowledge Science, Information Science and Materials Science.
		lished. The Internet Research Center was established.			The Headquarters for International Collaboration was established.
2002	April	The Center for Nano Materials and Technology was established, as a result of reorganization of the Center for New Materials.			The Global Communication Center was established. The International Research Center for Innovation Design was established.
2003	Septembe October	rThe Venture Business Laboratory was established. The IP (Intellectual Property) Operation Center was established.			The Research Center for Theoretical Computer Science was established. The Research Center for Entertainment Science was established.
		The Center for Strategic Development of Science and Technology was established.		August	tablished. The Center for Highly Dependable Embedded System Technology was discontinued.
2004	April	The Tokyo Satellite was established. JAIST was incorporated as a National University Corpora-			The Dependable Network Innovation Center was discontinued.
	November	tion. The Research Center for Trustworthy e-Society was estab-		Septembe	er The Center for Trustworthy IoT Infrastructure was established.
2007	April	lished. The Research Center for Integrated Science was estab-	2017	April	The Headquarters for Industrial Collaboration was reorganized.
	Septembe	lished. rThe Center for Highly Dependable Embedded Systems			The Industrial Collaboration Promotion Center was reorganized.
2008	April	Technology was established. The Center for Regional Studies and Innovation was estab-			The Community Collaboration Promotion Center was established.
2009	April	lished. The Global Communication Center was established.			The Headquarters for Excellent Core Promotion was established.
		The IP Operation Center was integrated into the Center for Research and Investigation of Advanced Science and Technology. The Education and Research Center for Trustworthy e-Society was established, as a result of the reorganization	2018	March April	The Career Service Center was discontinued. Division of Transdisciplinary Sciences was established. The Headquarters for the Promotion of Comprehensive Safety Management of Chemical Substances was established.
2010	April	of the Research Center for Trustworthy e-Society. The Center for Advanced Education for Working Profes-	2019	March	lished. The Research Center for Service Science was discontin-
2010	April	sionals was established. The Center for Graduate Education Initiative was estab-	2020	March	ued. The Center for Single Nanoscale Innovative Devices was
		lished. The Career Service Center was established.			discountinued. The Center for High-performance Nature-derived Materials was discountinued.
		The Research Center for Software Verification was established.		April	The International Research Center for Silent Voice Sensing (Excellent Core) was established.
2011	April	The Institute of General Education was established. The Research Center for Advanced Computing Infrastructure (RCACI) was established, as a result of the reorganization of the Center for Information Science.			The International Research Center for Sustainable Materials (Excellent Core) was established. The International Research Center for Materials Infor-
		The Research Center for Innovative Lifestyle Design was established, as a result of the reorganization of the Center			matics (Excellent Core) was established. The Research Center for Interpretable AI was established.
		for Knowledge Science. The Dependable Network Innovation Center was estab-		July	Research Center for Cohabitative-Al×Design (Research Core) was established.
		lished, as a result of the reorganization of the Internet Research Center.	2021	March	The Center for Trustworthy IoT Infrastructure was discountinued.
		The Green Device Research Center was established. The Center for Intelligent Robotics was established.			The International Research Center for Innovation Design was discountinued.
		The Research Center for Bio-Architecture was established. The Research Center for Highly Environmental and Recy-			The Research Center for Theoretical Computer Science was discountinued.
	July	clable Polymers was established. The JAIST Gallery was established.			The Research Center for Entertainment Science was discountinued.
2012	March	The Research Center for Distance Learning was integrated into the Center for Graduate Education Initiative.		April	The Center for Digitalization Endeavors was established. Research Center for Exponential-Biomedical Engineering
		The Global Communication Center was integrated into the Institute of General Education.			Research Certier for Exponential-Biomedical Engineering (Research Core) was established. The Headquarters for Digital Transformation was estab-
	April	The Industrial Collaboration Promotion Center was es- tablished, as a result of the reorganization of the Center for Research and Investigation of Advanced Science and			lished. The Center for Innovative Distance Education and Re-
		Technology. The Research Center for Simulation Science was estab-	2022	March	search was established. The Community Collaboration Promotion Center was dis-
		lished. The Center for Regional Innovation was established, as a			countinued. The Headquarters for International Collaboration was dis-
		result of the reorganization of the Center for Regional Studies and Innovation.			countinued. The Center for Global Educational Collaboration was dis-
2013	April	The Research Center for Service Science was established. The JAIST Innovation Plaza was established.		April	countinued. The Headquarters for Promotion of Future Innovation was
2014	July	The Headquarters for Industrial Collaboration was established.		•	reorganized. The Innovative Research Division was established.
2015	March	The Center for Graduate Education Initiative was integrated into the Research Center for Advanced Computing Infra-			The Social Cooperation Division was established. The Headquarters for Promotion of Cocreative Internation-
	April	structure. The Center for Global Educational Collaboration was es-			al Research was reorganized. The International Research Center for Artificial Intelligence
	October	tablished. The Center for Single Nanoscale Innovative Devices was			and Entertainment Science was established. The Center for Reskill & Recurrent Education was estab-
I		established.			lished.

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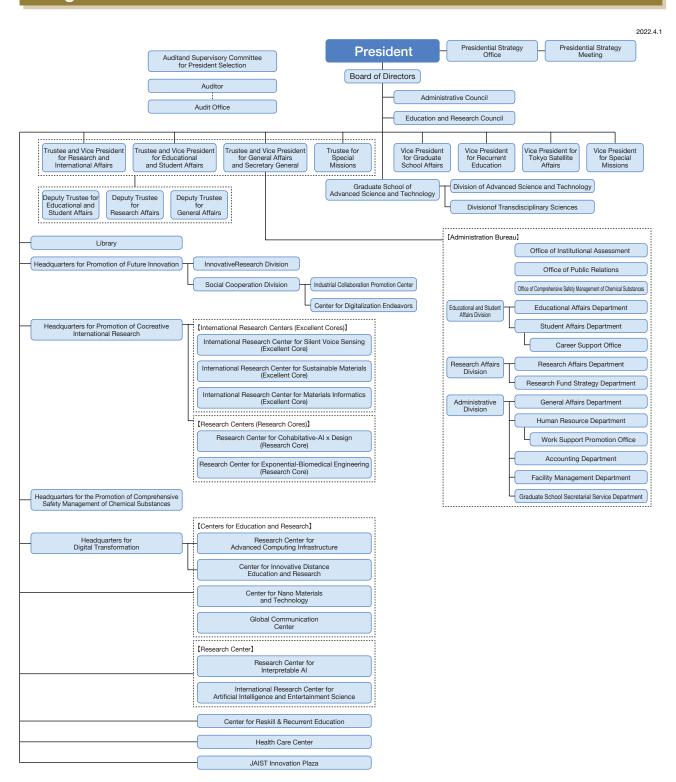
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MIZUTA Hiroshi

Organization



JAIST's Global Reach

Higher educational institutes today have to find a creative and practical way to contribute to the globalizing world. JAIST has been continuously promoting international exchanges and collaborations in the fields of advanced science and technology, and contributing to the society by educating students with the highest level of faculty and facilities to make them leading scientists or engineers indispensable for the future society.

Academic Collaborations

JAIST has concluded academic exchange agreements with 132 institutions in 26 foreign countries and 1 region (as of April 1, 2022) aiming at actively promoting exchanges of researchers and research collaborations worldwide.



Collaborative Education Programs

JAIST has promoted education programs in collaboration with renowned foreign academic institutes. Taking advantage of educational opportunities both at JAIST and the partner institutes helps students to obtain an international perspective and develop skills and abilities necessary to take active roles in the global society.

To seek for an ideal education system in the global era, JAIST has been operating several "Collaborative Education Programs" with the leading institutes in Europe and Asia.

Bilingual Environment

JAIST offers a fundamentally bilingual environment. About 40% of the students and about 20% of the faculty members are from abroad. English is the instruction language of all the doctoral courses and most of the master's courses so that students can obtain their degree without a command of Japanese language. All the important e-mail communication on campus is also available in English. The Global Communication Center at JAIST secures the bilingual environment with solid English and Japanese language education programs.

International Symposium

JAIST holds international symposiums to share our great achievements with the world. Through the symposiums, JAIST aims at promoting discussion on the research and encouraging students to learn more about global sense.

Period	Simposium/Seminar/Workshop	Venue
Mar. 13-15, 2021	International Symposium on Intelligence Design	Online
Mar. 8-9, 2021	International Workshop between IITGN and JAIST on Education under Pandemic and Post-pandemic Era	Online
Feb. 26, 2021	International Symposium on Materials Informatics 2020	Online
Dec. 8, 2020	International Symposium on Silent Voice Sensing 2020	Nomi and Online
Dec. 1-3, 2020	2020 ASEAN Workshop on Information Science and Technology (AWIST2020)	Online
Nov. 9-10, 2020	JAIST World Conference 2020 "International Symposium for Innovative Sustainable Materials" & "The 7th International Symposium for Green-Innovation Polymers (GRIP2020)"	JAIST
Feb.17-19,2020	International Workshop "Enhancing Global Leadership of Students and Universities based on SDGs, Diversity, and Collaboration"	Shah Alam, Malaysia
Jul. 16-18, 2019	2019 ASEAN Workshop on Information Science and Technology (AWIST 2019)	Bandung, Indonesia
Apr. 20, 2019	International Symposium on STEAM Learning	Nomi
Mar. 8, 2019	JAIST World Conference 2019 "Social Inclusion with Autonomy "	Nomi
Mar. 7, 2019	JAIST Japan-India Symposium on Advanced Science 2019	JAIST
Mar. 6, 8, 2019	JAIST World Conference 2019 "Advanced Design Creativity"	Kanazawa and JAIST
Feb. 28-Mar. 1, 2019	JAIST World Conference 2019 "Universal Design of Materials"	JAIST
Feb. 26, 2019	JAIST-IISc Seminar 2019	Bengaluru, India
Jan. 22-24, 2019	Smart Information/Smart Knowledge/Smart Material Workshop 2019	Pathum Thani and Bangkok, Thailand
Dec. 12-23, 2018	IITGN-JAIST Seminar	Gandhi- nagar, India
Aug. 1-4, 2018	2018 ASEAN Workshop on Information Science and Technology (AWIST 2018)	JAIST





JAIST International Seminar House

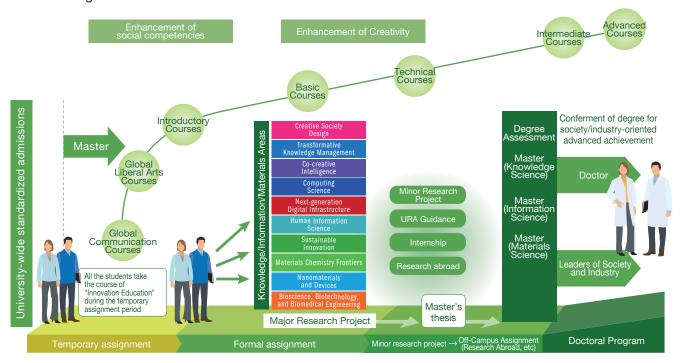
JAIST International Seminar House was established on April 1, 2021 as an accommodation facility for visitors whose purpose is to develop educational research and enhance international exchange with JAIST. This facility is divided into two segments of short-term use and medium-term use, and booking application for both segments are available from three months before the date of use. The application should be done through JAIST faculty or administrative staffs.



JAIST is committed to educating and training world-class scientists and engineers by accepting a wide range of enthusiastic international students and working professionals regardless of their undergraduate major.

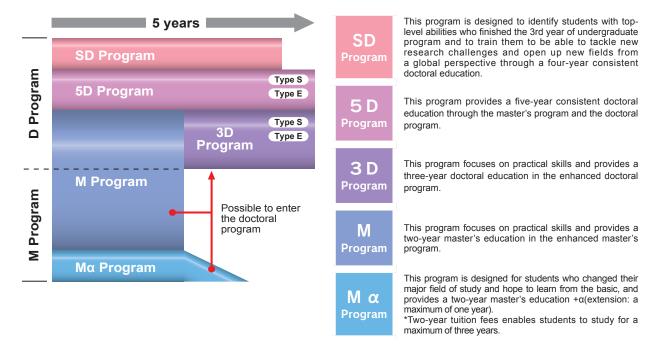
Features of JAIST's education system develops creative future leaders who can open new frontiers in science and technology JAIST's Education System System

Fostering global leaders with "Resilience and Co-creativity" through systematic course offerings and research guidance



Educational Programs to Satisfy a Variety of Study Purposes

JAIST provides various educational programs intended to help students achieve their personal, academic and professional goals. JAIST also provides support working professionals.



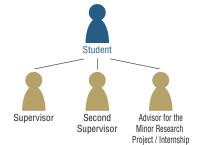
Supervisory and Effective Learning System

Taking Courses Offered in English

It is possible to fulfill degree requirements for both the master's and doctoral program by taking courses in English.

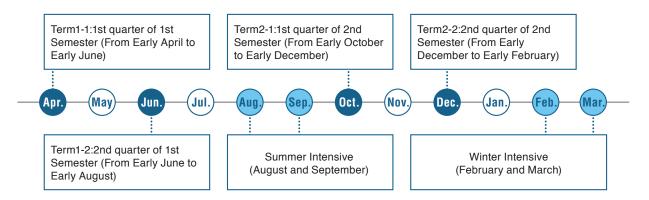
Multiple advisor system

Three advisors of (a supervisor, a second supervisor, and an advisor for the minor research project or internship) are assigned to each student and provide guidance and advice on student's study and research and on general academic activities.



Effective Learning

Since 1990 JAIST has adopted a quarter system which enables students to complete courses effectively in a short period of time. Lectures are offered mainly in the mornings, with tutorial hours, faculty tutorials and liberal arts classes offered in the afternoons. JAIST sets the time of enrollment twice a year in April and October. The class curriculum is also adapted to the students enrolled in October as in April.



Systems for the Quality Assurance in Education

- The Study Plan/Record between students and the supervisors helps review student's academic work.
- Preparation of a detailed research plan leads to successful program completion.
- Clarifying course goals, viewpoints of evaluation, evaluation methods and evaluation criteria for all courses is to secure the objectivity and rigidity of the grade assessment.

The Graduate-Level Collaborative Educational Courses

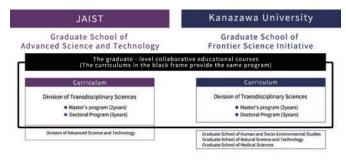
The "Division of Transdisciplinary Sciences" was established in April 2018. This division is aiming to build a "Model of Transdisciplinary Postgraduate Program" with the educational mission of "progressing the integration of multi scientific disciplines and contributing to innovation while exploring and practicing the methodology to integrate sciences".

The Division of Transdisciplinary Sciences offers courses in the fields in which each JAIST and Kanazawa University

specializes to form one single curriculum, enabling students to receive the same educational program whichever university they enroll in.

Furthermore, students can make use of a variety of host companies and institutions which are related to the two national universities for internship and study abroad.

In this division, excellent students may receive a monthly scholarship of 50,000 yen for the master's and 100,000 yen for the doctoral study.



10 Areas

Graduate School of Advanced Science and Technology has 10 areas and does activities beyond the confines of academic discipline.

Creative Society Design

Designing a creative society, where everyone's ability brilliantly shines.

An intellectual odyssey towards achieving rich quality of life by integrating and transcending science, technology and art.

The creative society design research area aims to design a creative society, where everyone can lead a radiant and enriched life, we will take an intellectual odyssey that integrates and transcends science, technology, and art, approaching it from both the human element and the machine element (or both analog and digital elements). Specifically, we will conduct: 1) research on information technology and interaction related to expression and collaborative activities that take human creativity into account; 2) research on social systems using simulation technology and network science to realize safety and security; and 3) research on design that brings innovation in products and services by incorporating human sensibilities and values. Through these three research areas, we aim to realize a human society in which everyone can contribute to innovation to improve QoL (Quality of Life) and achieve the SDGs (Sustainable Development Goals).

Transformative Knowledge Management

Our mission is to develop Next-generation knowledge management theories to promote social transformation and apply for practical problem-solving to build a wellbeing society.

Knowledge management has mainly focused on how to share and utilize knowledge in order to make the employees' tacit knowledge as a competitive resource for organizations. However, the key to next generation knowledge management will be how to bring about change and contribute to human wellbeing through knowledge creation, sharing, and transformation. We consider knowledge as a transformational resource for building a society where people can experience and pursue wellbeing, and we share the common questions of what is the nature of knowledge and knowledge creation that promotes radical change, and how do we need to renew knowledge management in order to develop the ability to change? In this research area, we will define "knowledge management" from the perspective of "transformation through knowledge", and aim to construct theories and solve practical problems through transformation.

Co-creative Intelligence

Our mission is to explore new intelligence that sustainably promotes the development and evolution of the advanced knowledge society through research on the human - technology co-creation of knowledge.

Cutting-edge science and technology are expanding human intellectual, physical, and mental activities and promoting the power of knowledge creation. On the other hand, human beings have intellectual activities unique to them, such as comprehensive judgment to make responsible decisions, intuition to catch faint signals, and creative trial and error to create knowledge by posing new problems and formulating hypotheses. There is a need for research and practice on these intellectual activities and the deep communication and co-creation abilities that humans have with others. In our knowledge society, knowledge creation is the main activity of humans and a resource for organizational competitiveness. The co-creation activities between science and technology and humans are essential for the sustainable creation and development of value. We call the intelligence that creates new knowledge by integrating state-of-the-art science and technology with human intelligence and creativity "co-creative intelligence." By exploring this new kind of intelligence that people active in the knowledge society should possess, we aim at clarifying the essence of intelligence and creativity. Simultaneously we conduct research and develop cutting-edge science and technology and propose to the community the ideal form of intelligence and science and technology.

Computing Science

Study computation, know the limits of computation, and unveil methods of the right conclusion from an ocean of data.

The world is facing many problems that require urgent solutions, but the use of the computer does not necessarily provide an immediate solution to all of them. Some problems cannot be solved in principle even if we use a supercomputer, and some others would require for their solution a longer time than the life of the universe. How can we create rigorous bug-free programs, extract only meaningful data from a massive amount of data, and get answers that we really need within a reasonable time? How can we guarantee the security, correctness, and validity of these computations?

This area is an interdisciplinary research area with cross-disciplinary education and research covering computer science, mathematics, artificial intelligence, data science, and other related fields from basic theory to applications of computing, from the viewpoints of information science. We aim to promote the evolution of the field of computing and artificial intelligence.

Next-generation Digital Infrastructure

Next-generation Digital Infrastructure Research Area performs research and graduate education on the fundamentals of ICT systems, to realize and extend comfortable, dependable, secure E-Society.

Computer systems and networks have become increasingly important to our modern life. These information and communications technologies, or ICT, are the foundation that enable applications on our smartphones, that provide information security, that allow our mobile devices to connect wirelessly to the cloud. In the future, this trend is clearly increasing as "smart technologies" combine to form the Internet of Things. In addition, ICT investment has a close relationship to corporate performance, and has become a key driver of national growth strategy. The Next-generation Digital Infrastructure Research Area performs research and graduate education on the fundamentals of ICT systems, to make wide-ranging contributions to industry, standardization activities and governmental policy making.

Human Information Science

Investigating mechanisms of human information processing and applying them to the advanced information processing systems

In this research area, our goal is to understand the fundamentals of human perception of multimodal information originated from interaction with the outside world, the mechanism of information transferring, based on a cross-disciplinary approach with focus on information science. Moreover, we also aim for applying new findings to the fields of higher level of information processing and robotics. Our attempt focuses on human-centered study through understanding human-human and human-machine communication, including mechanism of human sensory perception, multisensory modality and human behavior understanding; as well as recognition and understanding of linguistic and nonlinguistic information, and human thinking process and its modeling. Our research interests also include engineering implementation such as robot technology based on mechanical and control engineering, sensors and information processing for five-senses based on perceptual and intelligent information processing, and robot engineering as an intelligent agent that adaptively interacts with humans and the environment. These broad range research topics contribute to establish a human-centered society (Society 5.0) where machine interacts with human in harmonic ways.

Sustainable Innovation

To produce INNOVATION in building sustainable systems of environment, energy, economy, and society

The sustainable innovation research area aims to create sustainable energy and materials through new methods such as novel photochemical reactions of natural materials, atomic layer materials, single nanometer processing technology, and innovative photovoltaic cell/module manufacturing methods. We have taken on global challenges of Sustainable Development Goals (SDGs) based on the following six pillars:

1) Including processability of the liquid supermaterials,

- 2) Development of sustainable and highly functional nature-derived materials,
- 3) Ultra-sensitive sensors to detect silent voices of humans and nature and innovative nanoscale thermal control devices,
- 4) Physics of thermoelectric conversion, sustainable energy materials, and device applications,
- 5) Development of next-generation silicon-based solar cells through novel process technologies, and

6) Discoverable physical property mining that uses artificial intelligence (AI) theory.

We contribute to realizing a sustainable future symbiotic society by making cutting-edge fusion science through university-wide collaboration among materials science, information science, and knowledge science.

Materials Chemistry Frontiers

Explore frontier of materials chemistry through molecular/atomic level design of new materials utilizing advanced knowledge in the field of chemistry

This area focuses on the design of novel functional and high-performance materials through basic and applied chemistry with the aid of advanced characterization facilities. We contribute to society by proposing innovative chemical products and fabrication processes to industries, which are needed for the enriched sustainable society. Moreover, we aim to foster future researchers and technical experts who have the ability to develop new materials on the basis of design at the atomic and molecular levels with advanced knowledge of chemistry to explore frontiers of materials chemistry.

Nanomaterials and Devices

Our mission is to study cutting-edge science and technology of nanomaterials and devices for the realization of sustainable super-smart society.

We are working on the synthesis/growth of "emerging nanomaterials" (nanoparticles, nanowires, 2D atomic layer materials, etc.) and their characterization using "cutting-edge methods" (atomic resolution microscopy and spectroscopy, surface-enhanced Raman spectroscopy, etc.) as well as their application in "devices and sensing" (ultrahigh-speed devices, flexible photonic devices, spintronic devices, energy-conversion devices, chemical/bio-sensing, ultra-trace sensing, quantum sensing, etc.). Furthermore, we aim at opening new frontiers in materials science by actively introducing "artificial intelligence and robotics" to our own research. Faculties and students with diverse backgrounds gather, interact, and carry out collaborative research in order to contribute to "the sustainable development of human society".

Bioscience, Biotechnology, and Biomedical Engineering

We will investigate cutting-edge technologies based on understanding of biological functions, and develop their applications in biomedical fields.

Living organisms exhibit a variety of biological functions derived from various biomolecules such as proteins, nucleic acids, lipid membranes, and sugar chains. In this research area, we investigate biological functions of these biomolecules in molecular and cellular levels through utilization of advanced biotechnologies including our unique biomolecular analysis technology, artificial biomolecule creation technology, biodevice technology, gene editing technology, molecular robotics technology, etc. We expand the application of our research achievements in biomedical and healthcare fields that contribute to the development of human health and medical care. We also work on the practical application and social implementation of our advanced biotechnologies in collaboration with industry.

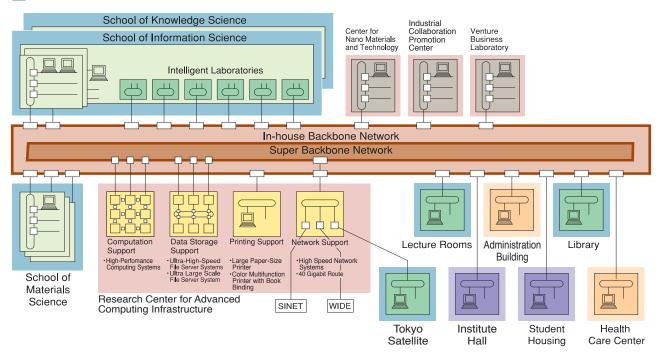
Research Center for Advanced Computing Infrastructure (RCACI)

The RCACI supports our world-class education and research environment by providing advanced information environment. Based on the FRONTIER Project, a high-speed and high-availability network provides the foundation for the high performance file servers, massively parallel computers, and various servers that have enabled JAIST since its foundation to continuously provide users a convenient information environment in the form of FRONTNET.

RCACI develops innovative information technologies to support information society and provides a large-scale experimental field to prove the new technologies.

- ① Providing the advanced information environments and their continuous improvement as a base of education and research at schools of knowledge science, information science and materials science, and computerization at library and administrative division.
- ② Construction and management of the information environment to serve as a model for information centers in Japan.
- 3 Remarkable contribution to construction of worldwide scale network.
- ④ Research on construction and management method for next generation large scale complex information system.
- ⑤ Research and development of next generation network technology to realize significant innovation of the Internet.
- © Development of massively parallel system to support education and research of advanced science and technology, and advancement of efficiency of use.
- (7) Research and development of security technology to realize safe and dependable information society.

FRONTNET



Center for Innovative Distance Education and Research (CIDER)

The CIDER responds to enhancing education and research in JAIST with the rapid changes triggered by COVID-19 through DX (Digital Transformation). The primary role of the center is to design, develop, and manage distance education and research environments beyond the boundaries of the university with live streaming and archiving systems for face-to-face lectures and online conference systems with students and partner institutions in Japan and overseas.

Distance Learning System

The distance learning system enables us to do lecture and conference with researchers and students at remote locations. It is a relatively small unit which includes a camera and microphones that record own side video, video/audio outputs from another side, and a codec that performs analog/digital signal conversion and transmission. It is possible to realize a video conference with a Full-HD video and PC screen images. Also, we can freely use a PC conference system with similar functionalities.



Advanced Laboratory Facilities

Information Systems

Campus Network

The campus network at JAIST is built with high-speed layer-3 core switches, etc. located at the Research Center for Advanced Computing Infrastructure.

In addition to the backbone switches, the floor switches also run at 10Gbps (wire speed), which enables very comfortable network access to any servers, anywhere in JAIST. The



Network Operation Center

same information environment is also provided on JAIST Tokyo Satellite. Our campus network system provides 80 Gbps access to SINET5, which is the 100 Gbps full-mesh network connecting many universities, research institutes and clouds.

High-Speed, Large-Volume Storage Systems

To provide a reliable file storage environment, we are running high-speed, large-capacity file server systems in parallel. Through the high-speed campus network, researchers and students can utilize the information system from any computer at JAIST without changing their individual computer environment. Data backup is provided automatically by the systems, so each user can maintain their focus on research or study. Depending on the needs of users, they can select among a variety of file servers.



DataDirect Networks GRID Scaler file server system

High-Performance Computing Systems

A high-performance computing (HPC) system is a system consisting of server specialized for computing and fast internal connection to solve complex computational problems.

HPC system "KAGAYAKI", which is the largest one in JAIST, has 280 computing nodes and total 35.840 CPU cores.

All computing nodes are connected via non-blocking fat-tree topology architecture with Infiniband HDR.





HPC system "KAGAYAKI"

HPE Superdome

Equipment

Campus Network	Juniper Networks: MX204, Cisco Systems: ASR1002 Cisco Systems: Nexus 7710, Juniper Networks: QFX10002 Palo Alto Networks: PA-5220
High-Speed, Large-Volume Storage Systems	EMC Isilon Storage System DataDirect Networks GRIDScaler Storage System NetApp FAS/SolidFire Storage System
High-Performance Computing Systems	HPC System, "KAGAYAKI": 280 Nodes, 35840 Cores Superdome: 1 Node, 72 Cores/12TB memory PC Cluster GPU Node: 8 Nodes, 16GPU(Tesla P100) PC Cluster CPU Node 1: 30 Nodes, 1920 Cores PC Cluster CPU Node 2: 48 Nodes, 1536 Cores
Distance Learning System	Lecture archive system: Moodle Video conference system: Poly RealPresence PC conference system: Cisco Webex
Printing Support System	RISO, Japan: ORPHIS GD9630 (High Speed Printer with Book Binding) Canon, Japan: ImagePROGRAF TX-3000, ImagePROGRAF PRO-6100S (Large Format Printer) Fujitsu, Japan: Scan Snap FI-SV600 (Color Image Scanner) GBC: SureBind2000 (Portable Book Binding)

^{*}These are just some of the main pieces of equipment -there are many more.

Center for Nano Materials and Technology (CNMT)

The CNMT started in 2002 as a renewal of the former Center for New Materials, and is devoted to advanced research and education on nanotechnology. The Center promotes the Nanotechnology Education Program. It also supports joint projects in basic research and development of nanotechnology. Those projects are driven by domestic as well as foreign research groups at the highest level, for which the Center provides its state-of-the-art facilities.

Research Facilities and Instruments

The Center has special facilities and a variety of state-of-the-art instruments dedicated to basic research and development of nanomaterials. The special facilities include clean rooms and a helium gas liquefaction system. Research instruments include an 800 MHz NMR, mass spectrometers, SQUIDs, STMs, TEMs, SEMs, an RBS system and MBE systems.

Nano Material Technology Program

Since 2002, the Center has been promoting a systematic education program, the Nano Material Technology Program, to provide students and company engineers with a wide variety of knowledge and techniques regarding current advanced nanoscience and nanotechnology. This program includes lectures and training programs on nano-device fabrication, nano-biotechnology and nano-molecular analysis.



Clean room



X-ray photoelectron spectroscopy system (ESCA)



Outside view

Research and Education

Quantum Device Materials Division

Studies on solid-state physics as well as novel ultra-high speed and spintronics devices, micro-nano machines based on compound semiconductors. Studies on thermoelectric materials and devices.

Nano Bio Device Materials Division

Studies on biodevices and nano technologies for analyzing bio molecules and science-related problems. Studies on mass analysis.

Advanced Laboratory Facilities

Material Analysis Systems



Fourier transform ion cyclotron resonance mass spectrometer (FT-ICR MS)

FT-ICR MS produces high-resolution mass spectrum data and further enables to determine the chemical composition of molecules. The high sensitivity of this instrument allows it to detect small amounts of components, even on the order of pico to femtomole. We can analyze a wide variety of samples, including low-molecular weight compounds, organometallic complexes, and biomolecules. It also supports MALDI imaging to visualize the localization of target molecules.



Nuclear Magnetic Resonance spectroscopy (NMR 800MHz)

Nuclear Magnetic Resonance (NMR) spectroscopy is one of the powerful non-destructive analytical methods to obtain chemical and physical information of research samples. The high-field (800 MHz) NMR in JAIST is mainly used to investigate structure, dynamics, and interaction of biomolecules such as proteins, saccharides, DNA and RNA.



Scanning Transmission Electron Microscope (STEM)

Scanning transmission electron microscopy is a method to observe fine structures of materials. STEM equipped with a spherical aberration corrector allows us to obtain high-angle annular dark-field images at a high resolution of 0.08 nm. It is also possible to analyze elemental distributions and chemical bonding states of materials by using energy dispersive X-ray spectroscopy and electron energy loss spectroscopy.



Focused Ion Beam (FIB) system

By detecting secondary electrons generated from the surface of a sample irradiated with a focused ion beam, it is possible to obtain the sample surface image called a scanning ion microscope (SIM) image. It is also possible to perform fine processing at a target position of the sample while observing the SIM image. The FIB system contributes to the preparation of samples for cross-sectional observations of transmission electron microscopy.

Equipment

· Molecular mass spectrometer (FT-ICR-MS)	Bruker, Germany: SolariX
Magnetic sector-type / time-of-flight mass spectrometer	VG Analytical, Fisons Instruments, UK
·Rutherford backscattering analysis, high-energy ion implantation system	NHV Corporation: NT-1700H
Four-circle x-ray crystal analyzer	Rigaku Corporation: RASA-7A
Gene/protein structure analysis system	Applied Biosystems, USA: 373A DNA Sequencer (complete set)
Scanning electron microscope (SEM)	Hitachi: S-4100, S-5200
Transmission electron microscope (TEM)	Hitachi: H-7650 JEOL: JEM-ARM200F
Nuclear magnetic resonance spectrometer (NMR800MHz)	Bruker, Germany: AVANCE III 800
Solid state nuclear magnetic resonance spectrometer (NMR 500MHz)	Bruker, Germany: AVANCE III 500
Nuclear magnetic resonance spectrometer (NMR 400MHz)	Bruker, Germany: AVANCE NEO 400
Paramagnetic resonance spectrometer (ESR)	JEOL: JES-RE3X
X-ray photoelectron spectroscopy system (ESCA)	Fisons Instruments, USA: S-ProbeTM2803
Focused ion beam system (FIB)	SII: SMI3050
· Cluster formation reaction analysis system	Sumitomo Heavy Industries: SCI-400, SCR-500 JEOL: JSTM-4500VT

^{*}These are just some of the main pieces of equipment -there are many more.

International Research Center for Silent Voice Sensing (Excellent Core)

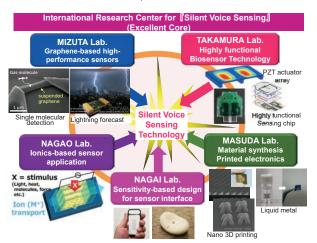
Build a safe and secure future with advanced sensing technology.

The International Research Center for Silent Voice Sensing aims to implement sensor systems in society to realize a physically, mentally, and socially healthy living environment. By integrating cutting-edge ultra-sensitive sensors and Kansei engineering based interface/spatial design, we will contribute to establish a society we enjoy our lives safe and well. In addition, the center promotes research and education program for students under our international network of research institutions and companies.

The nature, living things, humans, environment and social infrastructures surrounding us emit variety of faint signals constantly (electric/magnetic fields, vibration, sound, light, chemicals and bio-substances). The detection of these faint signals (we describe them as "Silent Voice") enables prevention/early detection of disease, forecast of natural disasters, material degradation/change, and mental stress monitoring. By empathizing with the nature, people and society via silent voice sensing technology, we can change our behavior and build an inclusive society with tolerance in diversity.

Extreme sensing technologies for detection of the silent voices are developed along with IoT and Al technology for big data processing. We also develop the interfaces/products/systems that are in harmony with the cutting-edge technologies and human. It should be the foundation of the social system that is truly required in the future society.

Our center is organized by combining five laboratories active in sensing-related research works. Research on high-performance gas sensors and atmospheric electric-field sensors based on nanoscale graphene (Mizuta Lab.), biosensors capable of analyzing tissues and cells at the molecular level (Takamura Lab.), research on tactile force sensors for robotics (Nagao Lab.), synthesis of liquid Si materials for sensor fabrication by printing (Masuda Lab.) and design of systems that harmonize with people and living environment (Nagai Lab.) are working together in this center.



(International Members)

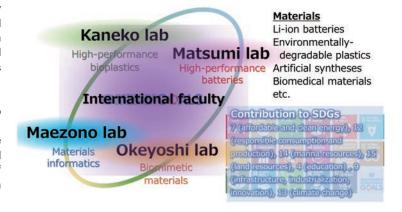
- O Advisory Professor
 - Vojislav Krstić, Professor of Applied Physics
 - Physics Department, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- OVisiting Research Fellow
- Yu-Cheng Chiu, Assistant Professor, Department of Chemical Engineering, National Taiwan University of Science and Technology, Taiwan

International Research Center for Sustainable Materials (Excellent Core)

Nature-derived materials create future society of human beings.

As can be seen from the background of the proposed sustainable development goals (SDGs) in the "2030 Agenda for Sustainable Development" adopted at the UN Summit in September 2015, the sustainability of humankind is recognized as the most important issue. The aim of this center is to promote materials science that contributes to the construction of a sustainable society under this background. In particular, aiming at materials development to directly contribute to 7 (affordable and clean energy), 12 (responsible consumption and production), 14 (marina resources) and 15 (land resources) of SDGs, and as a result, 4 (education), 9 (infrastructure, industrialization, innovation), 13 (climate change) will be contributed at an international level. Based on the knowledge of the most advanced science on molecular structure possessed by the members and the experience of teaching a number of international students, an international collaborative research is conducted to make them aware of the issues related to sustainability unique to their respective

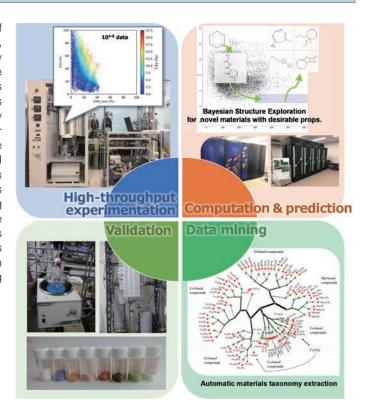
countries of origin and to develop materials to solve them. In order to promote research, we will actively accept international students in doctoral course and build a research promotion and guidance system within an international framework. There is a solid system based on our original researches such as high-performance bioplastic (Prof. Tatsuo Kaneko), high-performance battery (Prof. Noriyoshi Matsumi), material design by material informatics (Prof. Ryo Maezono), and biomimetic materials (Assoc. Prof. Kosuke Okeyoshi). In order to contribute to the construction of a sustainable society, we will build a research center for interdisciplinary researches of related organizations and companies, focusing on practical researches on fusion of the different fields.



International Research Center for Materials Informatics (Excellent Core)

Towards data-driven materials science of a new age

Materials informatics (MI) corresponds to attempts of applying approaches of data science to materials science, with an expectation that MI irreversibly changes the way of research and development in materials science. The concept of MI is already well-established, while its success in creating innovative materials and knowledge largely relies on the most intimate as well as the most interdisciplinary collaboration among researchers of relevant fields. Our research center embodies such collaboration among five research groups of JAIST through implementation of MI for practical materials development and towards materials science of new age. In doing so, we pursue research items such as 1) high-throughput experimentation for materials big data, 2) data-driven materials extrapolation, 3) explainable and interpretable AI for extracting knowledge from materials data, and 4) experimental validation of proposed materials and descriptors, along with active international collaboration with various partners. The center also cultivates young researchers who can embody MI by their own.





Research Center for Cohabitative-AlxDesign (Research Core)

Expanding human creative capacity based on AI and design

Dramatic advances in computing technology have enabled computers to take over some of the complex information processing tasks of humans, as exemplified by deep learning. In addition, the availability of ultra-high speed data communication has created an environment that allows instant access to big data from all over the world. What is left behind in this information society is the user, the human being. With Al and design as its backbone, this research core center aims to expand the creative abilities of people and promote research that will contribute to the construction of a creative society, a form of development of the information society. Specifically, based on design thinking, our primary objective is to give tangible form to the invisible possibilities of the future, i.e., the richness of life and the joy of living. By organically combining advanced technologies such as computing, interface, communication, and digital media, we aim to support and expand people's creativity, build an environment where people can enjoy the richness of life and exercise their creativity, and implement and verify the results in society as applied research. Research and development will be promoted in the following four layers.

Fundamental Elemental Technologies

- (1) Intelligent Processing Core Layer R&D of advanced intellectual processing technologies: deep learning, visual computing, etc.
- (2) Interface Layer R&D of operation and expression systems that connect the intelligent processing core and the user: human-machine interface, XR technology, multimodal interaction, etc.
- (3) Interaction Layer R&D of technologies to support collaborative activities between the intellectual processing core and users: HCl, entertainment computing, digital fabrication, creative activity support, knowledge creation support systems, life support, CSCW, communication support, etc.



Integrated Technology Development

(4) Cohabitation Layer

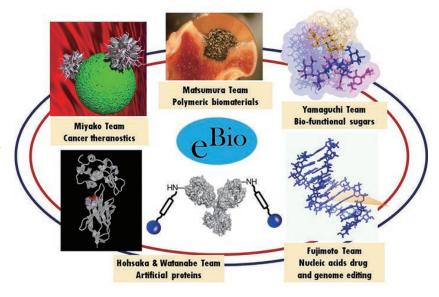
R&D on design thinking and STEAM for building a creative society through collaboration between the intelligent processing core and users.

Research Center for Exponential-Biomedical Engineering (Research Core)

Creations of functional materials-based transformative medical technologies

Developments of super-early diagnosis and definitive care are urgently required on a global scale for conquering intractable diseases including cancer. Beside, regenerative medicine would potentially overcome the unsolvable issues of the current medical treatments for many patients who lost their arms and legs or organs by a traffic accident etc. One of the aims of this research core is to contribute on lifestyles of health and sustainability of our society by creating innovative technologies based on designs and syntheses of functional materials especially for aforementioned cancer and regenerative medicine. Our biggest mission is particularly to deliver safe, secure, and effective medicinal technologies for patients as soon as possible we can.

In order to achieve the agenda, we are doing our best to create the materials and technologies such as 1) cancer theranostics (Assoc. Prof. Eijiro Miyako), 2) functional polymeric biomaterials for artificial organs, drug delivery system, and regenerative medicine (Prof. Kazuaki Matsumura), 3) bio-functional sugars (Assoc. Prof. Takumi Yamaguchi), 4) artificial proteins by combining biological and chemical techniques for biopharmaceutical (Prof. Takahiro Hohsaka and Senior Lecturer Takayoshi Watanabe), and 5) lighttrigged nucleic acids drug and genome editing technology (Prof. Kenzo Fujimoto), along with active international collaboration with various partners. The center also cultivates young researchers.



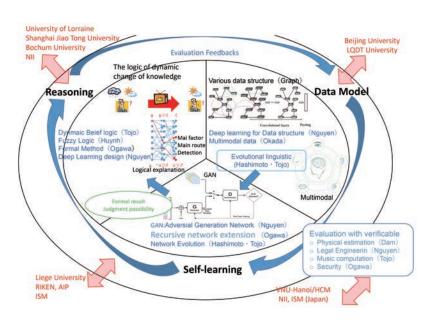
Research Center for Interpretable Al

Interpretable and explainable judgment by Artificial Intelligence

Artificial intelligence is now widely used, including in industry, from logical exploration in the 1990s to deep learning in the 2000s,

supported by advances in hardware, and research has shown significant progress. The application has been widely advanced in a wide range of fields, including pattern recognition (voice and image), game entertainment, natural language processing, and data analysis.

Even at our university, there is a strong relationship with the computing sience research area, human Information science research area, and co-creative intelligence research area. At present, the research on artificial intelligence expands the impact of the increasing use of applications on society, and ensuring the reliability of artificial intelligence technology has become an important issue. The aim of this center is to return to the basics of machine learning technology such as deep learning, and aim to secure empirical reliability as well as critical application of interpretable and explainable judgment by artificial intelligence. The center also aims to be an interface for joint research with overseas.



https://www.jaist.ac.jp/is/labs/nguyen-lab/home/interpretable-ai-center/

International Research Center for Artificial Intelligence and Entertainment Science

Bridging the objective and the subjective for a democratic future

For decades, artificial intelligence (AI) has been developed with intelligent search techniques and powerful learning agents to adapt to competitive settings. This condition leads to the notion of robust AI, which applies its data-driven knowledge to a wide range of problems systematically and reliably, synthesizing them from a variety of sources, where it can reason flexibly and dynamically about the world, transfer what it learns from one context to another, and finally build some semblance of trust. In conjunction with the AI research, entertainment science (ES) had gained momentum where aggregate value functions, enhanced affordance, improvised utility, and diverse reward systems were designed to make the process entertaining (i.e., gamification), subjective outcome measurable (i.e., engaging, fun, etc.), and quantifiable affective characteristic (i.e., exciting, motivating, etc.). Bridging AI and ES applied in a game environment provided the platform to benefit both sides as a new form of scientific venture while establishing common interests to understand better how those fields interact in popular media and other real-life problems.

Such research has undergone concerted efforts that brought together fields such as game informatics, human-like Al, human-computer interactions, entertainment computing, game analytics, Al search, information system, and the like. As digital games have explored human-driven phenomena, Al agents that are emotionally sentient would enable complex tasks to be performed more effectively, make better decisions, and offer more practical and effective services. In the aftermath of COVID-19, the need to intertwine Al and ES was becoming more critical, especially in learning, services, safety, workforce, robotics, supply chain, manufacturing, etc. Overhaul in interaction design, physical and virtual stimuli, relative to co-creation and collaboration between human and machine could be observed and significantly impacted. This research center acts as a platform for multi-disciplinary research efforts that disseminate and produce new knowledge and service development by capitalizing on games as the basis of a dynamic testing environment; therefore, solving real-world problems step by step.

Global Communication Center

The Global Leader. Your Future Identity.

1 Outline of the Center for Global Communications

In the international academic environment of JAIST, where students from various backgrounds and fields come from Japan and abroad, the Global Communication Center offers programs for all students to present research results in English, to think about current global issues, and to improve the Japanese language skills that international students use in their daily lives.

2 Global Communication Center Education Program

Technical English Communication Education courses are designed to help students acquire English literacy so that they can present their research results to the world. Technical Japanese language education courses are designed to help international students acquire the Japanese language skills they will need when they become active and established in Japanese companies and regions as highly skilled foreign human resources after completing their studies. To complement language education, we offer courses in cross-cultural understanding and global education that consider knowledge and solutions to global issues that we face.

3 Global Communication Center Training Program

(1) Writing Lab

Tutoring is provided upon request for students to present their research results in English.

(2) JAIST-Nomi City Cooperative Japanese Language Course

Based on the "Agreement on Academic-Government Collaboration" concluded between JAIST and Nomi City, JAIST offers Japanese language courses for international students, researchers, faculty members and their families who wish to acquire Japanese language skills and deepen their understanding of Japanese society.

Nomi citizens serve as Japanese language supporters and study in small groups according to the level of the students. Our students with high Japanese language ability also support the groups as assistants. In addition, a cultural experience class is also held courtesy of Nomi City.

By participating in these classes, students not only learn Japanese, but also deepen their understanding of Japanese and local culture and society.







Education for Working Professionals -Tokyo Satellite-

JAIST has a satellite facility in metropolitan Tokyo. It is located in the Shinagawa Intercity Building-A, which is a 3-minute walk from the JR Shinagawa Station's Konan Exit, and is on the 19th floor of the characteristic oval-shaped building.

The start of the JAIST Tokyo Satellite was in October 2003, when its Management of Technology (MOT) Course for master's degree within the School of Knowledge Science was inaugurated at its first location in Yaesu Campus just next to JR Tokyo Station. Afterwards the School of Information Science started Embedded Systems Course, Advanced Information Technologies Course for master's and doctoral degrees and, in collaboration with the National Institute of Informatics, Advanced Software Engineering Course for doctoral degree, in October 2005, April 2007 and April 2009 respectively in the Tamachi Campus. During this period, MOT Course was moved to Tamachi in October 2006, taking the opportunity of redevelopment project of Tokyo station Yaesu area. In October 2009, Management of Service (MOS) Course was launched by collaborative efforts of School of Knowledge Science and School of Information Science based on the successful experiences of MOT Course operation.

In April 2010, Advanced Knowledge Science Course for doctoral degree was added, and it was decided to move the facility to Shinagawa to establish the firm base for the courses, all of which are dedicated to working professionals. The relocation to Shinagawa was completed in October 2010. Then in October 2011, MOT and MOS courses were merged to be called iMOST (Innovation Management of Service and Technology) course, showing the important future direction of the innovation for industries to be competitive.

As of April 2022, total of six programs are offered to working professionals, which are MOT (Management of Technology) program, MOS (Management of Service) program and IOT·Al(Internet of Things & Artificial Intelligence Innovation) program for master's students, Advanced Knowledge Science program, Advanced Information Technologies program and an optional Creating Value program for doctoral students. In recent years, Internet of Things (IoT) and Artificial Intelligence (Al) are sources of competitiveness in many industries. JAIST has started a new program IoT·Al Innovation Program from April 2019, which is designed to foster IoT and Al innovation professionals based on information science and knowledge science.

In addition, JAIST has started an optional program, Creating Value program, from April 2022, which is designed to cultivate innovation professionals who can realize value co-creation.

The Tokyo Satellite offers advanced technological and managerial education to students of working professionals who are unable to attend classes at the JAIST campus in Hokuriku. It also allows workshops and seminars to be held in Tokyo, enabling JAIST to maintain close contact and increase collaboration with industry, government and academic institutions throughout Japan. JAIST is planning to offer opportunities for its students to broaden their views about management associated with technologies, services and global business skills. The satellite facility is located in Shinagawa, the nearest business center to the Haneda International Airport, which is now directly connected to major international airports in Europe, the USA and Asia. Taking this advantage together with JAIST's globalized educational system, Tokyo satellite facility will allow JAIST to fulfill its role as a leader in Japan's technological development in industry to be globalized.







Library

The library at JAIST is administered based on the three principles of "Open 24 hours a day", "Research library" and "Electronic library". We are confident that the quality of our library is appropriate for a graduate school in terms of accessibility and the contents of its collection.

The Main Features of the JAIST Library

Open 24 hours a day

Since research is being carried out throughout the day, the library is open 24 hours a day, seven days a week, so books and other materials can be viewed freely whenever you need them. Books can be checked out anytime by using a self-checkout machine.

Research library

The library's collection is focused on academic materials that are highly specialized/advanced in order to support research in the state-of-the-art science and technology.

■Electronic library

We are promoting a digital system of academic materials. Users can use the online public access catalog,e-journals, e-books and databases through JAIST's well-developed information network.

(As of Mar 31, 2022)

Building/Premises	Three stories; reinforced concrete; 3,076m²	
Seats	153 (including 36 carrels)	
Facilities	Library information system Entry / exit management system Self-checkout system	

Number of Books (Japanese: 83,922 / Foreign: 74,457)

7,147 titles

JAIST Repository

E-Journals

JAIST Repository is a digital collection for providing access to JAIST's research materials through the Internet.

J-BEANS (Learning Commons)

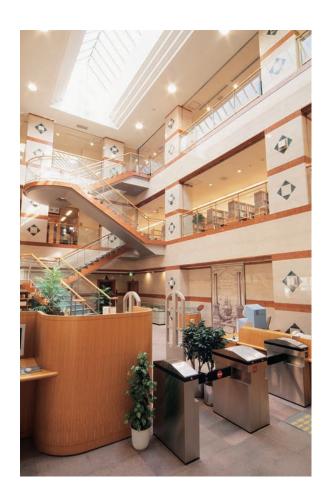
The Learning Commons called "J-BEANS (Space for Brainstorming, crEAtion, and iNnovation)" is a place where students, faculty and staff can study together and exchange academic ideas. The room could be used for a group learning or for a presentation, etc. Meals and drinks are allowed here.

Rare Books Collection

The Rare Books Room houses an exhibit of some of the classics in the fields of natural science and philosophy so that researchers dealing with creative work can come back to the origins of their fields by coming into contact with the classics of the pioneers.



Kaitai Shinsho, Sugita Genpaku (1774)



Health Care Center

The Health Care Center located on campus provides general health care services, including health examinations, first aid, health consultations and counseling, so that students and staff members can stay healthy in mind and body. Regular check ups are provided for all students every year. Also people who work with X-ray can be specially examined, if necessary. The Health Care Center is furnished with beds, sphygmomanometer, scales etc. for use. Students can use the room for self enjoyment. All these services are free!



Gymnasium

JAIST gymnasium was established in December 2018 for the facility of sport and recreation. It is used as a place of refreshment and health promotion for students, faculty and staff members.

Built largely of timbers, the gymnasium provides us warm and comfortable atmosphere.

It has a function of a designated evacuation place as well as a place of exchange with the locals.

The gymnasium is large enough to hold 2 volleyball coats and has separate locker rooms with shower for each gender.



JAIST Gallery

JAIST Gallery opened on September 29, 2012 to exhibit our research outcomes and show the world-class puzzle collection, the "NOB Collection".

The gallery exhibits our faculty's research results and the world-class puzzle collection called the "NOB Collection". The "NOB Collection" was collected by the late Mr. Nobuyuki Yoshigahara, who is known around the world as a puzzle designer and collector. The collection was donated to our university by his family. An exhibit room of the gallery itself is designed featuring an assembly puzzle, and there are rare and valuable puzzles in each display of the cube. A variety of puzzles are exhibited, ranging from simple ones for kids to difficult ones for adults. Not only displaying the puzzles, we also have a room where kids can play with puzzles. These puzzles bring you new idea to solve your problems.

Both kids and adults can enjoy the gallery.



Kanazawa Ekimae Office

For the Industrial Collaboration, JAIST has established an office in front of Kanazawa Station, Porte Kanazawa 9th floor. JAIST actively utilizes the office as an operating base for industrial collaboration and regional cooperation by holding meetings for collaborative research, events and seminar for companies, and also for project on seeking new students.



Headquarters for Promotion of Future Innovation

Industrial Collaboration Promotion Center

As a liaison with society for innovation creation, this center promotes collaboration with companies, public research institutions, governmental agencies, and financial institutions.

Innovation Creation

With the aim of creating innovation that will lead to the creation of new industries and the revitalization of the local community, we held annual business matching event, "Matching HUB," and have worked to expand this event nationwide.

Industrial Collaboration

With the support of the graduate school and various centers, we will establish comprehensive cooperative relationships with companies. We provide the latest information on advanced science and technology to engineers in industry, and promote cooperation with the local governments.

Intellectual Property Management

We provide a variety of services related to intellectual property management in order to contribute to society.

<Achievements>

Matching HUB

"Matching HUB" is a series of unique interactive events for revitalization of local communities. Over the years, it has been expanded throughout the nation from Hokuriku to various regions in Japan including Kyusyu and Hokkaido. Its main purpose is to connect social needs, research seeds and various supports from local administrations liaised by University Research Administrators (URA) and coordinators of JAIST to facilitate local innovation. In 2021, a platform consists of business, academia, financial institutions and local governments founded through Matching HUB was chosen as a part of "J-NEXSUS Program for Model Creation for Industry-Academia Collaboration" organized by Ministry of Economy, Trade and Industry (METI).



Designated, by METI, as a "Local Open Innovation Facilitator"

In October 2021, our outstanding efforts in Industry-Academia Collaboration including the above-mentioned Matching HUB were designated, by METI, as one of Local Open Innovation Facilitators.



Center for Digitalization Endeavors

This center will support the digitization of companies, local governments, etc. by utilizing the intellectual resources of JAIST and developing human resources for digitalization, thereby contributing to solving the problems of the local community in Hokuriku area.

■Support for digitization of companies, local governments, etc.

In addition to supporting the promotion of digitalization in companies and the development of products that support digitalization, we will also support local governments, etc. toward the realization of smart cities and super cities through joint research.

■ Development of human resources for digitalization

Through joint research between this center and companies, etc., in addition to solving problems, it is also possible to develop human resources by providing guidance so that employees can solve problems independently in the future.

Center for Reskill & Recurrent Education

The Center for Reskill & Recurrent Education was established in April 2022.

JAIST's recurrent education has from its inception begun with the active acceptance of working professionals who are dispatched from companies. JAIST also has a long history of offering courses for working professionals, including the Tokyo Working Professional Programs, which allow students to earn a degree while working through the JAIST Tokyo Satellite.

Based on our experience accepting many adult students, the Center offers reskill education for

working professionals to acquire specialized knowledge and skills in specific fields rather than focusing on receiving a degree. We hope to further promote recurrent education at JAIST and contribute to the revitalization of industry at large.



JAIST Innovation Plaza

— An Innovative Hub for Industry-academic-government Collaboration and Social Contribution —

With the aim of giving the fruits of the institute's various research efforts back to the society of the Hokuriku region, JAIST has assumed the activities of the JST (Japan Science and Technology Agency) Innovation Plaza, Ishikawa. JAIST Innovation Plaza will work, in cooperation with public research institutes in Hokuriku, to provide a liaison for industry-academic-government cooperation, and will contribute to innovation in regional society and enterprises.



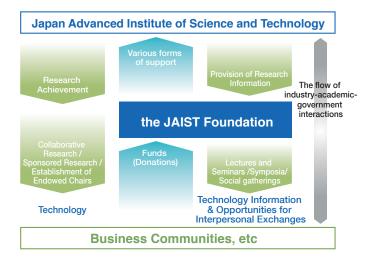
The JAIST Foundation

The JAIST Foundation was established in August, 1990 (has been a public interest incorporated foundation since April, 2011) mainly by the business communities of Ishikawa Prefecture and Hokuriku area, with purposes of making grants to

JAIST for education and research as well as of promoting industry-academic-government interactions. The foundation expands its activities by its endowment's investment income. Its amount has reached about 3.3 billion yen (as of March, 2022), and has become one of the largest foundations of its kind in Japan.

The Foundation arranges and sponsors the following activities:

- 1. Education and Research
- 2. Collaborative Research
- 3. Technical Guidance and Consultation
- 4. Scholarship Programs
- 5. Industry-Academic-Government Interactions



Ishikawa Science Park

Ishikawa Science Park (ISP) was built in 1990 in the hilly area of Tatsunokuchi (Asahidai, Nomi City), the town filled with lush greenery, with the aims of facilitating industry-academic-government interactions in the field of advanced science and technology, and creating the base of global research development. Setting JAIST as the core institution, which was founded as Japan's first institute specializing in advanced graduate education and research, ISP promotes agglomerations of research and development institutions and industry support institutions. ISP exists today that requires responses to rapidly chang-

ing environment, such as globalization of society, complication of industrial structures, and rapidly progressing technological innovation, and plays a role in research development relating to sophisticated science and technology.





Students

Admissions

	Type of Examination
Mastaria Dragram	Regular Examination
Master's Program	Examination for Admission on Recommendation for Overseas Residents (*)
Do atoual Discours	Regular Examination
Doctoral Program	Examination for Admission on Recommendation for Overseas Residents (*)

^(*) This examination is conducted by the interview through web communication tools, and screening of the application documents. Applicants can go through the selection process without traveling to Japan.

For more details on admissions, please visit the following website.

https://www.jaist.ac.jp/english/admissions/



Entrance Fee/Tuition Fee

	Screening Fee	Entrance Fee	Tuition Fee
Master's Program	¥30,000	V202 000	¥267,900 (semester)
Doctoral Program		¥282,000	¥535,800 (year)

Entrance Fee Reduction

Those who find it difficult to pay the entrance fee because of their financial situation, and are approved as high-achieving students, may be granted a reduction in entrance fees. There is also an entrance fee deferment system.

Tuition Fee Reduction

Those who find it difficult to pay the tuition fee because of their financial situation, and are approved as high-achieving students, may be granted a reduction in tuition fees.

Exemption or Reduction System in Case of Disasters

Students who find it difficult to pay fees due to emergencies or disasters which occur after their application and/or entrance to JAIST, especially emergencies involving their parents, may also be granted an exemption or reduction in entrance fees or tuition fees.

Please refer to the following website.

https://www.jaist.ac.jp/english/studentlife/support/fee.html



Scholarships for International Students

In order to support international students, JAIST has a variety of financial support systems, consisting of scholarships and on-campus employment. Shown below is a list of JAIST's financial support systems. For details and scholarship application procedures, contact the Student Affairs Department.

Scholarships that students can apply for BEFORE arriving in Japan

(1) Japanese Government (Monbukagakusho: MEXT) Scholarship

The Ministry of Education, Culture, Sports, Science and Technology (MEXT) offers scholarships to international students who wish to study at Japanese universities either as a research student or a regular student in Master's / Doctoral program.

Monthly allowance:

143,000 yen for research students

144,000 yen for master's program students

145,000 yen for doctoral program students

There are two types of selection processes for this scholarship.

Embassy Recommendation

MEXT asks each Japanese embassies or consulates in countries that have diplomatic relation with Japan to recommend candidates for MEXT scholarship.

Please contact them directly for the detailed schedule for application as it differs according to the embassy/consulate.

University Recommendation

JAIST recommends candidates to MEXT after selection. Applicants are preferably students or graduates of universities or research institutions with which JAIST has academic exchange agreements.

Please contact a prospective supervisor and obtain his/her informal consent of acceptance before application.

(2) Government Scholarship of Student's Own Country

Many countries are sending students to study abroad on government scholarships. Contact the relevant authorities of your own country for the detailed information.

(3) Scholarships from Local Governments or Private Foundations

Students can apply for some of these scholarships before arriving in Japan. For more information, visit the website of the Japan Student Services Organization (JASSO). https://www.jasso.go.jp/en/study_j/scholarships/index.html

(4) JAIST Original Support System

In order to provide financially secure graduate school life, JAIST has original support systems.

JAIST Scholarships (Benefit type: No repayment required)

Type of Scholarship	Number of Recipients	Benefit
Master's Program Scholarship	Top 10% of all second year students in the master's program	-Tuition
	Top 25% of all second year students in the master's program	-Half of tuition

Scholarships that students can apply for AFTER entering JAIST

Most scholarships from local governments or private foundations require students to obtain recommendation from JAIST and submit an application via JAIST. For more detailed information, visit the JAIST web page.

Student Housing

Eight five-story Student Housing are located on campus. International students of overseas residence receive priority to live in Student Housing.

■Common Facilities

Common room, meeting room, Japanese-style room, and student housing parking.







Single Room
An E-mail address is provided for each student, and PC can be connected to the campus LAN.

	Single room unit	Double room unit	Family room unit	Single room unit (JAIST HOUSE)
Number of Units	533	33	33	30
Floor Space	12.5m² (One room)	41.4m² & 46.9m² (1 bedroom, living/dining) room and kitchen	59.8m² (2 bedrooms, living/dining) room and kitchen	17.6m² (One room)
Housing Rent	¥12,540 (per month)	¥14,920 (per month)	¥17,220 (per month)	¥16,350 (per month)
Facilities	desk, chair, shoe rack, loft bed, bookshelf, closet, air-conditioner, kitchenette, lavatory, refrigerator	desk, chair, shoe rack, table, chairs for dining room, closet, gas range, washing and drying machine, air-conditioner, kitchen, lavatory, bathroom, refrigerator	desk, chair, shoe rack, table, chairs for dining room, closet, gas range, washing and drying machine, air-conditioner, kitchen, lavatory, bathroom, refrigerator	desk, chair, shoe rack, bed, bookshelf, closet, refrigerator, gas range, microwave, washing machine, air-conditioner, curtain, kitchenette, bathroom,etc.
Shared Facilities	bathroom, laundry space	_	_	_

Facilities for Campus Life



Cafeteria



Convenience Store



Training Room



Tennis Courts

JAIST Shuttle

The JAIST Shuttle Bus runs between JAIST and the closest stations for free of charge and eligible for everyone on-campus and outside the campus. "Komatsu Line" runs between JR Komatsu Station and JAIST and requires a reservation in advance. "Tsurugi Line" runs between Tsurugi station of Hokuriku Railroad and JAIST.

JAIST Shuttle buses are painted with characters that are "JAI-LEON (JAIST's mascot)", "nomimaru-kun (Nomi city)", "Hiponon & Yuzumin (Nomi city)",



"KABUKKI (Komatsu city)" and "Yuki Mama and Shizuku-chan (Hakusan Tedorigawa Geopark Mascots)" to contribute to local PR. These characters are all image characters of local communities that JAIST has signed collaboration agreement with.

Data: Outline of JAIST

Number of Board Members

(As of May 1, 2022)

President	Trustee	Auditor		
1	5	2		

■ Number of Faculty and Office Staff

(As of May 1, 2022)

Professor	Associate Professor	Senior Lecturer	Assistant Professor	Cubtatal	Office Staff	Total
Research Professor	Research Associate Professor	Research Senior Lecturer			Office Staff	Total
63	38	11	35	100	145	011
11	1	0	7	166	145	311

■ Number of International Faculty

(As of May 1, 2022)

					(10 01 may 1, 2022)
Country Region	Professor, Research Professor	Associate Professor, Research Associate Professor	Senior Lecturer, Research Senior Lecturer	Assistant Professor, Research Assistant Professor	Total
Vietnam	3	1		4	8
India	1		2	3	6
Korea	1	3			4
Thailand			1	3	4
China			1	3	4
USA	2				2
Indonesia		1		1	2
Pakistan			1	1	2
Taiwan				2	2
Israel		1			1
Romania		1			1
UK		1			1
Greece		1			1
France			1		1
Turkey				1	1
Malaysia				1	1
Italy				1	1
Nicaragua				1	1
Total	7	9	6	21	43

Number of Students

(As of May 1, 2022)

		Master's	Program		Doctoral Program					
	Capacity of Admission	1st year	2nd year	Total	Capacity of Admission	1st year	2nd year	3rd year	Total	Total
Graduate School of Advanced Science and Technology (Division of Advanced Science and Technology)	282	271 (57) [91]	459 (76) [148]	730 (133) [239]	90	102 (30) [61]	87 (21) [46]	237 (65) [107]	426 (116) [214]	1156 (249) [453]
Graduate School of Advanced Science and Technology (Division of Transdisciplinary Sciences)	10	10 (0) [2]	14 (1) [4]	24 (1) [6]	5	(0) [1]	5 (1) [3]	3 (0) [2]	9 (1) [6]	33 (2) [12]
School of Information Science								2 (0) [0]	2 (0) [0]	2 (0) [0]
Total	292	281 (57) [93]	473 (77) [152]	754 (134) [245]	95	103 (30) [62]	92 (22) [49]	242 (65) [109]	437 (117) [220]	1191 (251) [465]

 $[\]begin{tabular}{ll} ** (&) Number of female students within the total. & [&] Number of international students within the total. \\ \end{tabular}$

^{**} The numbers in each year include those enrolled in October. The numbers in the Doctoral Programs include those enrolled in July.

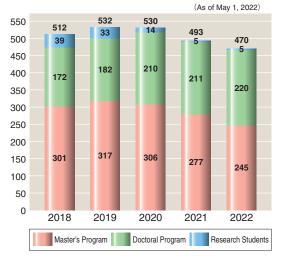
Number of International Students (Including research students)

(As of May 1, 2022)

Country		l of Advanced Scien Inced Science and T		Graduate School of Advanced Science and Technology (Division of Transdisciplinary Sciences) Total							
Region	Master's Program	Doctoral Program	Research Students	Master's Program	Doctoral Program	Research Students	Master's Program	Doctoral Program	Research Students	Total	Rate %
China	193	114	4	2	5		195	119	4	318	67.7
Vietnam	25	29					25	29	0	54	11.5
Thailand	2	28	1	3			5	28	1	34	7.2
India	2	11					2	11	0	13	2.8
Myanmar	1	10					1	10	0	11	2.3
Bangladesh	3	7					3	7	0	10	2.1
Indonesia	3	5					3	5	0	8	1.8
Korea	2	3		1	1		3	4	0	7	1.6
Taiwan	2	1					2	1	0	3	0.6
Malaysia		2					0	2	0	2	0.4
Cambodia	1						1	0	0	1	0.2
Pakistan	1						1	0	0	1	0.2
Mongolia	1						1	0	0	1	0.2
Jamaica		1					0	1	0	1	0.2
Brazil		1					0	1	0	1	0.2
UK	1						1	0	0	1	0.2
Germany	1						1	0	0	1	0.2
Egypt		1					0	1	0	1	0.2
Saudi Arabia		1					0	1	0	1	0.2
Turkmenistan	1						1	0	0	1	0.2
Total	239	214	5	6	6	0	245	220	5	470	100

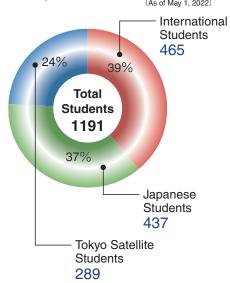
■ Change in International Students, 2018-2022

(Including research students)



■ Percentage of Students

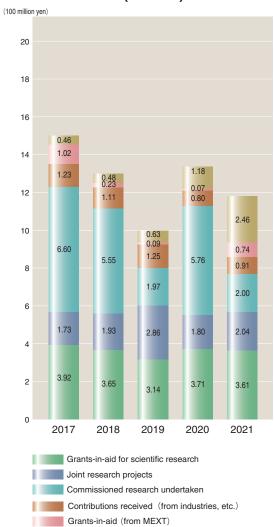
(Excluding research student) (As of May 1, 2022)



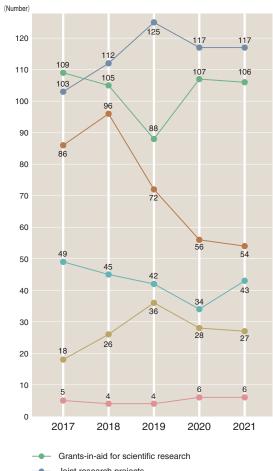
Degrees Awarded

Degrees Awa	raca		(As of Mar 31, 2022)	
	Master's	Program	Doctoral	Program
	2021	Cumulative Total	2021	Cumulative Total
Knowledge Science	89	1781	18	303
Information Science	97	2830	16	469
Materials Science	82	2708	26	541
Transdisciplinary Science	8	23	-	-
Total	276	7342	60	1313

■ External Funds (amount)



■ External Funds (number)



Joint research projects

Commissioned research undertaken

Contributions received (from industries, etc.)

— Grants-in-aid (from MEXT)

- Others

■ Grants-in-Aid for Scientific Research

Others





Campus Map



1 School of Knowledge Science, Building I

2 School of Knowledge Science, Building II

3 School of Knowledge Science, Building III

4 School of Knowledge Science Lecture Hall

5 School of Information Science, Building I

6 School of Information Science, Building II

7 School of Information Science, Building III

8 School of Information Science Lecture Hall

9 School of Materials Science, Building I

10 School of Materials Science, Building II

11 School of Materials Science, Building III

12 School of Materials Science, Building IV

3 School of Materials Science Lecture Hall

14 Center for Nano Materials and Technology

15 Technical Annex Center

16 Nano Analysis Building

17 Multidisciplinary Research Center

18 Entry Hall

19 Headquarters Building for Industrial Collaboration

20 Venture Business Laboratory

21 JAIST Innovation Plaza

22 Institute Hall (Cafeteria, ATM)

23 Library

24 Convenience Store, Training Room

25 Gymnasium

26 JAIST International Seminar House

27 Student Housing

28 JAIST HOUSE

29 Apartment Houses for JAIST staff

30 Administration Building

Bus Stop (JAIST Shuttle Komatsu Line) ♀

31 Bus Stop (JAIST Shuttle Tsurugi Line) ♀

32 Parking









JAIST Shuttle Entrance Hakusan Relief









Cafeteria Convenience Store





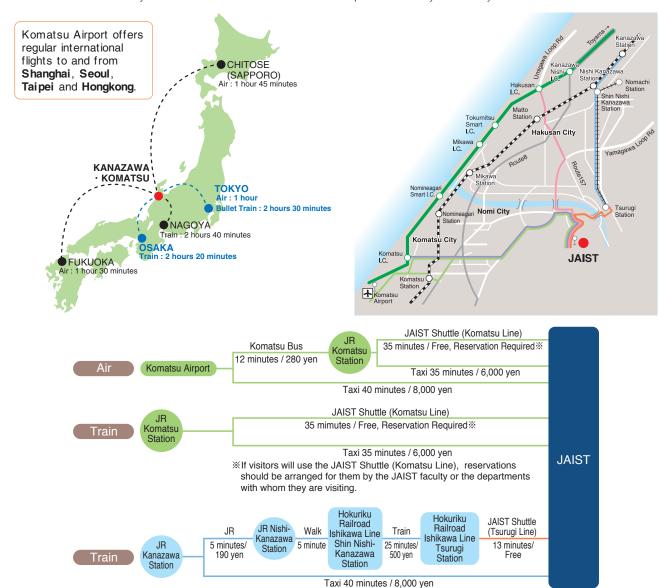
HP "Access"

JAIST is located in the center of the Ishikawa Science Park, high on a hill overlooking the city of Nomi. The campus site offers natural beauty, with views of nearby counties and the city of Kanazawa to the north, the Sea of Japan to the west, forests and pastures to the south, and the spectacular Mt. Hakusan to the east.

The area provides a variety of recreational facilities for every season, including several nearby ski resorts, beaches and seaside parks, golf courses, hot springs and athletic and recreational parks. The area affords easy access to natural scenery, wilderness and outdoor recreation

While the quiet natural setting of the campus is superbly suited for education and research, JAIST also lies mid-way between the two largest cities in Ishikawa. University shuttles regularly run between the campus and local train stations, making it easy for students to reach both Komatsu and Kanazawa.

The historic city of Kanazawa, often referred to as "Little Kyoto", which is home to various traditional cultural arts and the setting for numerous cultural events year round lies about 20km from JAIST campus and is easily reached by bus or train.





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