

# Examination Schedule

## October 2024 Admission

Type of Examination	Application Period (The application must be postmarked within the period)	Examination Period (The designated one day of the following period)	Date of Notification of Admission Decision
Regular Examination	May 29 - June 11, 2024	July 6 - 7, 2024	July 19, 2024
Examination for Admission on Recommendation for Overseas Residents	<div> <div>Submission deadline for pre-check: May 15, 2024</div> <div>Application period: May 7 - 31, 2024</div> </div>	Interview and Documentary screening	July 26, 2024

## April 2025 Admission

Type of Examination	Application Period (The application must be postmarked within the period)		Examination Period (The designated one day of the following period)	Date of Notification of Admission Decision
Regular Examination	First Examination	May 29 - June 11, 2024	July 6 - 7, 2024	July 19, 2024
	Second Examination	September 2 - 13, 2024	October 12 - 13, 2024	October 25, 2024
	Third Examination	November 20 - December 3, 2024	January 11 - 12, 2025	January 24, 2025
Examination for Admission on Recommendation for Overseas Residents	Submission deadline for pre-check: November 14, 2024		Interview and Documentary screening	January 24, 2025
	Application period: November 6 - 28, 2024			

Note: Applicants who will graduate (or graduated) early from their university, and those who will complete (or completed) their bachelor's degree in a foreign country may be required to pass through the Judgment of Eligibility prior to applying. For details, please refer to the instructions for each type of examination.

# Mission and Goals

## Mission

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.

## Goals

- 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.
- JAIST, 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.
- JAIST fosters active global human resources by promoting faculty and student exchanges with leading institutes overseas and globalizing its education and research.

# Admission Policy

JAIST looks for students who possess a strong will and a clear sense of purpose in pursuing study and research in the fields of advanced science and technology based on Knowledge Science, Information Science and Materials Science, who are capable of expressing their own ideas logically, and who have an attitude to make efforts to produce mutual understanding through discussions. JAIST, as a university of postgraduate education without an undergraduate program, accepts applicants widely from bachelor's degree holders, international students and working professionals irrespective of their undergraduate major and background. Applicants are expected to have solid understanding of what they have studied in their undergraduate major field and to be prepared for study and research at JAIST.

In the light of the image of students stated above, JAIST screens applicants by evaluating their basic knowledge, ability, and aspiration necessary for carrying out study and research at JAIST based on a short essay on their research topic after admission, an oral examination (including an oral presentation and Q&A about basic knowledge and their undergraduate major field), and a transcript of their undergraduate level school.

In the evaluation, JAIST emphasizes the result of the oral examination and uses submitted documents as reference. As for the Admission on Recommendation, applicants are exempted from the oral examination and screened based on submitted documents including the short essay and the recommendations.

# Diploma Policy

The Division of Advanced Science and Technology in the Graduate School of Advanced Science and Technology at JAIST sets its educational goal in cultivating innovative talents in advanced science and technology who can take active roles as leaders in society or industrial world with broad vision required in a sustainable society and communication ability in addition to specialization in advanced science and technology.

In the master's program, a master's degree in Knowledge Science, Information Science or Materials Science based on student's main academic fields will be conferred to those who have acquired the abilities listed below and have passed either the Master Thesis Examination and the Final Examination, or the Ph.D. Qualifying Examination after having obtained all the required credits.

## Abilities to be acquired during the Master's Program

- Ability to understand fundamental concepts of advanced science and technology in the major field
- Ability to identify and solve problems by the application of specialized knowledge
- Ability to carry out academically and socially valuable research on their own initiative
- Ability to challenge a different field from the major or an unexplored field
- Ability to comprehend diverse cultures and ability to communicate
- High ethical perspectives as a researcher or an engineer

## Main Academic Fields

**Knowledge Science:** An academic field that integrates knowledge of design methodology, business management, system science and others related to issues of human, organizations or society, proposes attractive solutions to the issues, and contemplate how to materialize the solutions

**Information Science:** An academic field that aims to solve problems for humanity and society, pioneer unexplored fields, and produce new innovative basic theories, basic technologies and applications about information processing and communication that supports the information society

**Materials Science:** An academic field that produces new and innovative materials by aiming at solving for humanity and society and pioneering unexplored fields based on physics, chemistry, biology and their relevant science and technology

## Outlines and Keywords of Research Areas

Research Areas	Outlines	Keywords
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.	Creativity Support, Social Network, Design Thinking, Human Computer Interaction, Media Interaction, Visual Computing, Disaster Science, Resilience Engineering, Urban Design & Health, Network Science, Collaboration, Intercultural Communication, Pervasive Technology, Embodied Cognition, STEAM Education, Data Science/AI Applications
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.	Wellbeing, Knowledge Creation, Organizational Transformation, Green Service Innovation, Sustainability, Value Design, IoT Design, Ethnography in a Medical Setting, Business Ethnography, Next Generation Tourism, Service Intelligence, Artificial Intelligence
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.	Knowledge Science, Knowledge Creation, Cognitive Science, Data Science, Artificial Intelligence, Language and Communication, Philosophy of Language, Decision Theory, Meta-Cognition, Educational Engineering, Complex Systems, Emergence-Evolution-Institution, Machine Learning, Computational Science, Materials Informatics, Social Linguistics, Language Policy, Creation Process, Idea Creation, Experiential Learning, Collaborative Learning, Learning Process Design
Computing Science	Study computation, know the limits of computation, and unveil methods of the right conclusion from an ocean of data.	Information Science, Information Security, Mathematical Logic, Artificial Intelligence, Automated Theorem Proving, Formal Methods, Theoretical Computer Science, Data Science, Distributed System, Algorithms, Information Theory
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.	Smart City, Cyber Security, IoT, Internet, Information Systems, Embedded Systems, Software Engineering, Formal Methods, Next-generation Wireless and Sensor Communications, VLSI Design, AI Platform
Human Information Science	Investigating mechanisms of human information processing and applying them to the advanced information processing systems	Perceptual and Intelligent Information Processing, Social Signal Processing, Multimodality, Communication, Education/Learning Technology, Game Informatics, Natural Language Processing, Audio/speech Signal Processing, Image/video Signal Processing, Human Interface, Intelligent Robotics
Sustainable Innovation	To produce INNOVATION in building sustainable systems of environment, energy, economy, and society	Sustainable Energy, Thermoelectrics, Solar Cells, Artificial Photosyntheses, Natural Molecules, Silent Voice Sensing, Materials Informatics, Artificial Intelligence, Quantum Simulation, Eco-friendly Process
Materials Chemistry Frontiers	Explore frontier of materials chemistry through molecular/atomic level design of new materials utilizing advanced knowledge in the field of chemistry	Nanomaterials Chemistry, Polymer Chemistry, Green Chemistry, Catalytic Chemistry, Energy Related Materials, Eco-friendly Materials, Biomaterials, Materials Informatics, Nano Machine, High-speed AFM Imaging, Rheology, Optically Functionalized Materials, Operando Analysis
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.	Nanoparticles, Nanowires, Two-dimensional Materials, Emerging Nanomaterials, Nanofabrication, Nanoimaging, Nanometrology, Nanospectroscopy, Quantum Technology, Sensing, Electronics, Spintronics, Nanopaper Devices, Organic Devices, Digital Transformation, Data-driven Materials Science, Soft Robotics, Tactile Sensing
Bioscience, Biotechnology, and Biomedical Engineering	We will investigate cutting-edge technologies based on understanding of biological functions, and develop their applications in biomedical fields.	Biotechnology, Biomedical, Protein, DNA/RNA, Biomembrane, Sugar Chain, Biomolecular Analysis, Artificial Biomolecule Creation, Biodevice, Gene Editing, Molecular Robotics