

Dear Partner,

We would like to invite your students to attend our  
**NAIST-DMS Pre-screening Program 2025**  
**(For Specially Recommended International Students for 2026/2027 Enrollment)**  
**Division of Materials Science, Nara Institute of Science and Technology (NAIST), JAPAN.**

This program is open to all Master students, faculty members, researchers, or graduates from our partner universities who passionately wish to enroll and continue their studies in the NAIST doctoral program. We will have a document screening, lab-rotation and interview test as a pre-screening for the enrollment. Successful applicants will have a chance to become a candidate for Scholarships.

Please recommend us 3 or more of the motivated candidates from your university who meet our qualifications according to the guidelines. The application deadline is **September 25, 2025**, and the required documents must be submitted to [ms-kokusaijimu@ms.naist.jp](mailto:ms-kokusaijimu@ms.naist.jp) by e-mail. Applicants are not allowed to apply directly. Selection is competitive and not all applicants will be successful.

Please also encourage your students and faculty to participate in the Information Session of **NAIST-DMS Study Abroad Fair on September 5, 2025**. There will be introductions of 16 laboratories by faculty. It will be a good opportunity to learn more about our laboratories and research and if they find the laboratory they wish to work with, then please encourage them apply for the Pre-screening Program.

Thank you very much for all your cooperation.

Sincerely yours,

A handwritten signature in blue ink, reading '上久保 裕生' (Kamikubo Hironari).

Hironari KAMIKUBO, Professor  
Director of the Division of Materials Science,  
Nara Institute of Science and Technology

## Application Guidelines for the 2025 Pre-screening for Doctoral Program (For Specially Recommended International Students for 2026/2027 Enrollment)

### 1. Deadline for Application

**25<sup>th</sup> September, 2025**

### 2. Number of students to be recommended:

Please recommend **three or more** of the most suitable applicants from your university who meet our qualifications below.

### 3. Qualifications of applicants:

- (1) Those who do not hold Japanese nationality.
- (2) Those who wish to enroll in NAIST-DMS Doctoral Program.
- (3) Those who have a **GPA score of at least 2.30 (out of 3.00)** in his/her most recent academic transcript.
- (4) Those who are highly proficient in English communication, especially in a scientific field.
- (5) Those who are **recommended by the president or dean** of the following universities, and who are recognized for their excellence in academics, achievement, personality and character.
- (6) In accordance with the above, candidates must meet one of the criteria below:
  - A) Those who are registered as students, faculty members or researchers at the universities on the following list. Those who meet this requirement are required to keep the status until applying for our entrance examination (Screening of International Students by Special Recommendation).
  - B) Those who have graduated from the following universities.
 

Kasetsart University, Thailand / Chulalongkorn University, Thailand / Universitas Gadjah Mada, Indonesia / Universitas Indonesia, Indonesia / IPB University, Indonesia / Institut Teknologi Bandung, Indonesia / Tianjin University of Technology, China / Liaoning University, China / Nanjing University, China / Ateneo de Manila University, Philippines / University of the Philippines Diliman, Philippines / Hanoi University of Science, VNU, Vietnam / Institute of Materials Science, Vietnam Academy of Science and Technology, Vietnam / University of Science and Technology of Hanoi, Vietnam / University of Malaya, Malaysia / Universiti Sains Malaysia, Malaysia / Universiti Tunku Abdul Rahman, Malaysia /
- (7) Those who will receive a master's degree by the time of enrollment
- (8) Those who plan to enroll in NAIST with the scholarship conditions below:
  - A) MEXT scholarship applying through NAIST (**Under 35 years of age as on Apr 1 in the year of admission**) → 2026 enrollment
  - B) MEXT scholarship applying through Japanese Embassy (**Under 35 years of age as on Apr 1 in the year of admission**)\* → 2027 enrollment

\*Applicants in Indonesia are required to complete their master's degree by the time of application.

C) Other scholarship

D) Private expense (Enrollment fee: 282,000JPY / Tuition fee: 535,800JPY/year)\*

\*Student can apply for exemption. Enrollment fee is not exempted in most of the cases while Tuition fee is at least half exempted in most of the cases.

#### 4. Required documents:

- ✓ CV (use NAIST format)
- ✓ Academic transcripts (academic record) of Bachelor and Master program school records
- ✓ Photocopy of a certified TOEIC score or equivalent (e.g., TOEFL, IELTS, etc.) if available
- ✓ Research experience and background
  - \* Any format is acceptable \*Five A4-size pages max
- ✓ Research plan
  - \*Any format is acceptable \*Two A4-size pages
  - \*Cover the following subjects:
    - The contents of master's thesis
    - The research field/project that applicants want to work on at NAIST after the enrollment

#### 5. How to apply:

Please send all required documents to the International Student Coordinator of DMS-NAIST ([ms-kokusaijimu@ms.naist.jp](mailto:ms-kokusaijimu@ms.naist.jp)) by email. Those documents should be sent as Microsoft Word or PDF files. Please make sure that the documents are submitted through a faculty member at applicants' university. **Please do not allow applicants to apply directly.**

#### 6. Selection procedures:

Applicants can choose a program online or onsite. \* The number of participants for Onsite Program is limited. The selection consists of steps below.

- (1) Document screening: Participants will be selected based on the documents submitted. Not all applicants will be successful. All applicants will receive the selection results by **the middle of October, 2025** by e-mail from the International Student Coordinator of DMS-NAIST.
- (2) Presentation: Participants who passed the document screening will give a presentation on their own research online, which will be evaluated by NAIST faculty.

##### **[PROGRAM A] Online program**

- (3) Laboratory Rotation: The applicants who passed the first document screening may join **the laboratory rotation** held by each laboratory online. They may choose three laboratories of their interest and participate in them. During this period, students can ask and learn more about the research, and have an opportunity to talk with laboratory members.

##### **[PROGRAM B] Onsite program**

- (3') Internship (Onsite): The internship program consists of a 2.5-days lab-stay in three laboratories, and interview test. This program will be held from **25<sup>th</sup> of November to 6<sup>th</sup> of December 2025**. NAIST will cover the travel fee. Based on performance during the lab stay and the interview test, participants' suitability for the Doctoral program will be evaluated.
- (4) Interview test: During the online laboratory rotation and the onsite internship, there will be an interview test by PIs. Students will be evaluated on their presentation, English proficiency, basic academic ability, enthusiasm, and potential as a researcher.
- (5) The result announcement: The results will be announced by **the beginning of January, 2026**.
- (6) MEXT Embassy Recommendation: Participants who pass the interview test and are not selected for a scholarship for admission in 2026 are strongly encouraged to try for the MEXT Embassy

Recommendation 2026.

If they are not successful, but have evidence of having applied for the MEXT Embassy

Recommendation, they will be considered for a university recommendation slot for admission in 2027.

## 7. Selection schedule (Tentative):

2025	September	<b>Study Abroad Fair</b> (Information Session) on 9/5	
		Application deadline on 9/25	
	October	Document screening and Result announcement	
		<b>Presentation Day</b> (online) on 10/31	
	November - December	Program A	<b>Lab Rotation</b> online (November)
		Program B	<b>Onsite Internship</b> (11/25-12/6)
2026	January	Result announcement	
	February	For 2026 enrollment	For 2027 enrollment
		<b>Entrance Exam</b> (Screening of Specially Recommended International Students)	Prepare for the MEXT Embassy recommendation
	March-May		Application for MEXT scholarship <b>(Apply via Japanese Embassy)</b>
	July		First screening by Embassy (document, paper test, interview test)
	August		Result announcement
			Pass Failed
			Receive a letter of acceptance from NAIST Contact NAIST
	October	<b>Enroll in NAIST</b>	
2027	January		Final result announcement from MEXT
	February		<b>Entrance Exam</b> (Screening of Specially Recommended International Students)
	October		<b>Enroll in NAIST *</b>

\*Even if the applicant failed the MEXT embassy recommendation, NAIST may consider to assign MEXT university recommendation to the participants of pre-screening program with higher grades

- Embassy of Japan in Thailand ([https://www.th.emb-japan.go.jp/itprtop\\_th/index.html](https://www.th.emb-japan.go.jp/itprtop_th/index.html))  
Application deadline previous year: middle of May
- Embassy of Japan in Indonesia (<https://www.id.emb-japan.go.jp/sch.html>)  
Application deadline previous year: middle of April
- Embassy of Japan in the Philippines ([http://www.ph.emb-japan.go.jp/itpr\\_en/00\\_000193.html](http://www.ph.emb-japan.go.jp/itpr_en/00_000193.html))  
Application deadline previous year: end of May
- Embassy of Japan in Malaysia ([http://www.my.emb-japan.go.jp/itpr\\_en/postgraduate.html](http://www.my.emb-japan.go.jp/itpr_en/postgraduate.html))  
Application deadline previous year: middle of April
- Embassy of Japan in Vietnam ([https://www.vn.emb-japan.go.jp/itprtop\\_vi/index.html](https://www.vn.emb-japan.go.jp/itprtop_vi/index.html))  
Application deadline previous year: early in May

All application procedures for Japanese Government (Monbukagakusho = MEXT) Scholarships are conducted through Japanese Embassies, Consulates in your countries, or institutions of higher education in Japan. If you require any further information regarding Japanese Government (MEXT) Scholarships, contact Japanese Embassies, Consulates in your countries. Application fee is not charged. Please be aware that organizations or individuals who charge application fees or deposits have no relation with the Japanese Government.

### <IMPORTANT>

MEXT prioritizes applicants with high level English proficiency (i.e, CEFER B2, TOEIC 780)

## Laboratory list

Please choose laboratories you are interested in and want to join at NAIST only from the list below, and write them on your CV (use NAIST format) in order of preference. For the further information about each lab, please access our homepage (<https://mswebs.naist.jp/en/laboratories/> )

2025 NAIST Division of Materials Science: Lab list

Physics	<b>Bio-Process Engineering Laboratory</b>	<b>Prof. Yoichiroh Hosokawa</b>
	Keywords: Applications of ultra-shot pulsed lasers, single cell manipulation technology, micro-fluidic devices, atomic force microscopy (AFM), laser-induced crystallization, mechanism investigation of laser-induced explosions acting on biological material	
	<b>Solid-State Information Physics Laboratory</b>	<b>Prof. Tomohiro Matsushita</b>
	Keywords: Photoelectron holography & spectroscopy, Electron diffraction, Scanning tunneling microscopy, Cathode luminescence, Dopant atomic structures, 3D shaped surfaces, Semiconductor electronic states, Magnetism	
Device	<b>Quantum photo-science Laboratory</b>	<b>Prof. Hiroyuki Katsuki</b>
	Keywords: Femtosecond lasers, nonlinear spectroscopy, coherent control, exciton polariton, vibrational polariton, two dimensional materials, coherent phonon manipulation, energy transfer	
	<b>Organic Electronics Laboratory</b>	<b>Prof. Masakazu Nakamura</b>
	Keywords: Flexible electronics, organic thin-film transistors, organic solar cells, flexible thermoelectric generators, polymer, carbon nanotube, scanning probe microscopy, development of novel characterization techniques	
Chemistry	<b>Photonic Device Science Laboratory</b>	<b>Prof. Kiyotaka Sasagawa</b>
	Keywords: Image sensors, photonic devices, artificial visual devices, implant devices, brain implant devices, fluorescence detection, CMOS integrated circuit design, RF electric-field imaging	
	<b>Thin Film Semiconductor Devices Laboratory</b>	<b>Assoc.Prof. Kosuke O. Hara</b>
	Keywords: Solar cells, thin-film transistors, silicide semiconductors, oxide semiconductors, group-IV nanosheet, physical vapor deposition, solution combustion synthesis, virtual screening, density functional theory	
Chemistry	<b>Photonic and Reactive Molecular Science Laboratory</b>	<b>Prof. Tsuyoshi Kawai</b>
	Keywords: Photochemistry, synthesis of functional molecular materials, photochromism, homogeneous catalysis, biomass conversion, molecular chirality, luminescent metal complexes, nanoclusters, electrochromism, sensor molecules, electrochemistry	
	<b>Biomimetic and Technomimetic Molecular Science Laboratory</b>	<b>Prof. Gwénaél Rapenne</b>
	Keywords: Biomimetic science, molecular machines, technomimetic molecules, molecular chemistry, organic synthesis, coordination chemistry, polyaromatics, molecular motors, molecular gears, nanovehicles, single molecule, surface deposition, artificial membrane, cerasome, membrane dynamics, membrane-active agents, biological function modulation	
	<b>Functional Organic Chemistry Laboratory</b>	<b>Prof. Naoki Aratani</b>
	Keywords: Functional organic materials, polycyclic aromatic hydrocarbons, carbon nanomaterials, aromaticity, supramolecular chemistry, photochemistry, organic electronics	
Chemistry	<b>Functional Inorganic Materials Design Laboratory</b>	<b>Prof. Tomoyo Goto</b>
	Keywords: Ceramics, Functional inorganic materials, Crystal morphology, Nanomaterials, Liquid-phase synthesis, Environmental purification materials, Bioceramics	

Biomaterial	<b>Functional Supramolecular Chemistry Laboratory</b>	<b>Prof. Shun Hirota</b>
	Keywords: Supramolecule, protein, metalloprotein, function control, enzymatic reaction, chemical modification, AI protein design, analytical method, organic synthesis	
	<b>Complex Molecular Systems Laboratory</b>	<b>Prof. Hironari Kamikubo</b>
	Keywords: Complex molecular systems, protein science, biophysics, structural biology, protein design engineering, X-ray solution scattering, X-ray crystal structure analysis, neutron crystal structure analysis, low temperature spectroscopy, vibrational spectroscopy, fluorescence lifetime measurements, recombinant DNA technology, artificial proteins, structural proteins, protein transportation systems, nerve axon-elongation systems, optical information conversion systems, intermolecular interaction, intramolecular interaction, dynamic ordering analysis	
Data Science	<b>Nanomaterials and Polymer Chemistry Laboratory</b>	<b>Prof. Hiroharu Ajiro</b>
	Keywords: Molecular technology, Polymer synthesis, Polymerization control, Polymer-polymer interaction, High performance polymer, Functional polymer, Biomaterial, Medical polymer material, Environmentally friendly material, Energy related material	
	<b>Materials Informatics Laboratory</b>	<b>Prof. Mikiya Fujii</b>
	Keywords: materials informatics, process informatics, high-throughput calculations, quantum chemistry, ab initio calculations, machine learning, deep learning, generative models for materials, photocatalysis, catalysis	
	<b>Data Driven Chemistry Laboratory</b>	<b>Prof. Uraoka / Assoc.Prof. Miyao</b>
	Keywords: Data-driven chemistry, materials informatics, chemoinformatics, chemometrics, process informatics, soft-sensor modeling, chemical plant monitoring, in-silico drug discovery, de-novo molecular design, quantitative structure-activity (property) relationships, in-silico functional materials design, ligand-based approaches, chemical space, machine learning, deep learning, statistical methods, Data mining.	
	<b>Metrology Informatics Laboratory</b>	<b>Prof. Shigetaka Tomiya</b>
	Keywords: Metrology Informatics, Materials Analysis, Data science, Multimodal Measurement, Automated Analysis, Transmission Electron Microscopy, 3D Atom Probe, Cathodoluminescence, Photoluminescence, Semiconductor Materials and Devices.	