

Kanazawa University WPI-NanoLSI 2025 Academic Year Bio-SPMs Collaborative Research Application Guidelines

金 The Nano Life Science Institute (WPI-NanoLSI), Kanazawa University, is calling for applications for Bio-SPMs collaborative research.

1. Outline of Call for Research Proposal

1-1 Aims

The research teams at Kanazawa University have engaged in the pioneering development of original Bio-SPM technologies*, including Atomic resolution/3D-AFM (FM-AFM), High-speed AFM, Scanning Ion Conductance Microscope (SICM), and AFM for Cell Measurement, and applied them to the life sciences. Here, we call for applications for collaborative research projects that are carried out by the applicants using our Bio-SPMs, with the cooperation of the WPI-NanoLSI faculty members.

* Please refer to the document, 'Overview of each Bio-SPM technology,' for further information.

<https://nanolsi.kanazawa-u.ac.jp/en/research/applications/bio-spm/>

1-2 Program Details

You will conduct research on nano-life science and related fields using NanoLSI's Bio-SPM as a collaborative research project with NanoLSI host researcher.

*The following samples cannot be accepted.

- Genetically modified organisms at P2 level or higher, pathogenic microorganisms and viruses at BSL level 2 or higher, and other regulated items
- Samples that are prohibited from being brought into Japan if you are applying from overseas.

1-3 Application Eligibility

Researchers or engineers from national and overseas public or private universities.

Note: students such as graduate students and undergraduate students are not eligible as an applicant but can be included in the research project team.

*"NanoLSI Associates" are accepted to apply even if they belong to companies.

1-4 Research Period

For applicants adopted in 1st or 2nd call, from the date of approval to March 31, 2026.

Note: You are supposed to inform a research period within one month after the notification of

approval. We may not be able to meet your request for the timing of collaboration due to circumstances. The available days are Monday to Friday.

1-5 How to Apply

Application Items

Please submit the following two documents to the submission destination.

Form 1	'2025 Academic Year Bio-SPMs Collaborative Research, Application and Collaborative Researcher Approval Form'
Arbitrary Format	'Curriculum vitae for the principal investigator (applicant) only'

Please download the form 1 from the website below.

<https://nanolsi.kanazawa-u.ac.jp/en/research/applications/bio-spm/>

Please indicate on the application form if you have pre-consulted with our host researcher.

Submission Deadlines

1st in 2025: May 28, 2025 (Wednesday), 17:00 JST.

2nd in 2025: Sep 17, 2025 (Wednesday), 17:00 JST

* 3rd call will NOT be available in FY 2025.

Note: For urgent cases, applications will be accepted regardless of the deadline. However, this procedure is only available after coordination with the researchers in WPI-NanoLSI. If an urgent application is adopted, the implementation may be in the following fiscal year.

Submission Destination

Nano Life Science Institute, Kanazawa University,
Kakuma-Machi, Kanazawa, 920-1192, Japan.

E-mail: nanolsi_openf01*ml.kanazawa-u.ac.jp

※Please replace the asterisks (*) with @.

1-6 Selection Method and Notification of Results

The NanoLSI director will make a decision after the careful review by the Expert Committee members, and the applicant will be notified of the decision.

* Research applications that match our policy described in “1-1. Aims” will be preferentially approved. It is preferable that applicants have already conducted sample preparations and preliminary experiments, for example, biochemical experiments, test of observation conditions, and microscopic analysis by optical microscope, electron microscope, SPM, etc. However,

applications without any preliminary results will also be approved depending on the contents.

1-7 Inquiries Regarding Research Contents

Send an inquiry to the e-mail address below. The inquiry should include the type of Bio-SPMs you wish to use (either Atomic resolution/3D-AFM (FM-AFM), High-speed AFM, Scanning Ion Conductance Microscope (SICM), and AFM for Cell Measurement). The reply will come from the person in charge of the specific Bio-SPM technology.

E-mail: nanolsi_openf01*ml.kanazawa-u.ac.jp ※Please replace the asterisks (*) with @.

1-8 Travel Expenses

If it is necessary to support the travel expenses including transportation and accommodation for staying at Kanazawa University, mention it in the appropriate part of Form 1. Travel expenses will be supported up to 200K JPY for domestic applicants and 350K JPY for overseas applicants based on the travel expense regulations of Kanazawa University after the review by the Expert Committee of WPI-NanoLSI. (However, if the airfare is very expensive, WPI-NanoLSI may support up to one person's round-trip travel expenses plus one week's accommodation expenses, exceeding the maximum limit.) In the case of collaborative research by sending samples, WPI-NanoLSI will bear the shipping costs for the samples without travel fees.

2. Post-Acceptance Procedures

2-1 Time of implementation

Upon receipt of the acceptance notification, please consult with the host researcher to determine the timing of the visit and submit the itinerary within one month of receiving the notification. (The visit must be completed by March 2026. If you are late in letting us know when you will be travelling, even if you have been selected for travel expenses support, we may not be able to secure the budget and you may have to pay for your own travel expenses.

2-2 Research Report

An approved researcher has an obligation to report the research results when the research period is over. Using Forms 2 and 3, prepare and submit the research report. The deadline is May 9, 2025. The summary of research results (Form 3) will be publicly posted on the NanoLSI Bio-SPMs Collaborative Research website in 2026 academic year.

Form 2	'2025 Academic Year Bio-SPMs Collaborative Research, Research Report'
Form 3	'2025 Academic Year Bio-SPMs Collaborative Research, Research Report Summar'

※ Forms 2 and 3 can be downloaded from the Bio-SPMs Collaborative Research

<https://nanolsi.kanazawa-u.ac.jp/ja/research/applications/bio-spm/>

2-3 When the Research Papers are Published

To measure the effectiveness of this program, we would like to collect the data of research papers published through Bio-SPM Collaborative Research carried out. Therefore, we sincerely hope that the approved researchers will kindly inform us when the research papers are published. In addition, for three years after the research period is over, we would like to ask all the approved researchers every June via e-mail if the research papers through collaborative research were newly published.

3. Others

- a. If your samples or methods are quite new to Bio-SPM measurements, we will select your proposal as a "Preliminary Investigation". In Preliminary Investigation, experts of Bio-SPM will perform some experiments to search for the measurement conditions. When the measurement conditions for your proposal are fixed, you can start full research.
- b. When a submitted application is approved, the principal investigator (PI) responsible for the collaborative research and the collaborative partner researchers should be a collaborative researcher of WPI-NanoLSI, Kanazawa University. All members who participate in the approved research project can stay at Kakuma Guest House. If no room is available at Kakuma Guest House, stay at hotels downtown.
- c. For the outstanding proposals related to cancer research, travel expenses will be supported up to 200K JPY for domestic applicants and 350K JPY for overseas applicants by the Cancer Research Institute, Kanazawa University based on the travel expense regulations of Kanazawa University. Adopted should mention as follows when the results are published, **"This work was partly supported by Extramural Collaborative Research Grant of Cancer Research Institute, Kanazawa University."**
- d. Graduate and undergraduate students can also participate in a collaborative research team. In such cases, approval from their supervisor is absolutely necessary. The approval form is available in Form 1. Travel expenses can be covered for only graduate students, but not for undergraduate students.

Supplementary Information

- **Regarding the Birth date, Age, and Gender fields in the Application**

These fields are necessary for statistics in the evaluation report by the Ministry of Education, Culture, Sports, Science and Technology, in which the ages and genders of collaborative researchers must be presented. The information provided will not influence any decisions. In addition, the personal information provided will be handled with the utmost caution.

- **Regarding Filling out the Application**

Add more spaces freely if not enough space is available in the application form. The number of pages can be increased.