

13th Bio-SPM Summer School Application Guidelines

Overview

The research teams of 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.

The Nano Life Science Institute (WPI-NanoLSI), Kanazawa University, will hold a “Bio-SPM Summer School” and is calling on young researchers and students who are interested in Bio-SPM systems. In this school, we provide participants with the opportunity to use our Bio-SPM systems for imaging of their own samples and realize their potential.

Participants can choose among systems ranging from atomic resolution/3D-AFM, high-speed AFM, SICM, and AFM for Cell Measurement according to their purpose. For more information on Bio-SPM technology, please refer to the “**Overview of each Bio-SPM technology**” document on the 13th Bio-SPM Summer School website (<https://nanolsi.kanazawa-u.ac.jp/research/applications/summerschool/>). The sample to be observed using Bio-SPM can be biomolecules, cells, as well as a wide range of other samples related to biological research.

The NanoLSI faculty members serve as instructors and teach not only how to use the Bio-SPM instruments but also the sample preparation for Bio-SPM. Observation of your own samples will be carried out as collaborative research with the instructors.

Application Eligibility

- Young researchers and students who are interested in observing their own samples by Bio-SPMs. Prior knowledge of Bio-SPM is not required.
 - Those who can prepare and bring their own samples and participate in the entire schedule of Bio-SPM Summer School.
 - Those who participated in the previous Bio-AFM Summer School are no longer eligible to participate. Please apply our Bio-SPM collaborative research. Those who belong to the same labs as previous participants are allowed to apply.
 - Students must obtain permission from their affiliated organization to participate after being selected.
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Schedule

Aug 25th (Mon) – Aug 29th (Fri), 2025 at Nano Life Science Institute (WPI-NanoLSI), Kanazawa University, Kakuma Campus

All the participants will gather at NanoLSI on Aug 25th and follow the schedule below.

- On the first day (Aug 25th), lectures and self-introduction session will be held in the morning.
- From Aug 25th afternoon to Aug 28th, you will all be divided into SPM rooms designated by the instructors and Bio-SPM experiments will be carried out.
- On the last day (Aug 29th), results will be presented in a meeting.
- We will assign some learning materials on SPM and ask you to learn them in advance.
- Programs will be conducted in English.

Application deadline

Application must reach us by May 15th, 2025 (Thursday)

How to apply

- Please submit your application to nanoss_2025recp[at]ml.kanazawa-u.ac.jp
 - *Please replace [at] with @.
 - Download the application form from the 13th Bio-SPM Summer School Application website (<https://nanolsi.kanazawa-u.ac.jp/research/applications/summerschool/>).
 - If you do not receive an acceptance email within 3 days of your application, please inquire at the contact address. In that case, please send us an e-mail from a different address from the one you used when you applied.
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Inquiry

- nanoss_2025recp[at]ml.kanazawa-u.ac.jp
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Quota

- Around 20
 - We will review your applications and select participants.
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Fee

- Participation fee: Free of charge
 - Transportation to Kanazawa University and accommodation during your stay in Kanazawa will be paid according to the regulations of Kanazawa University. The amount of reimbursement will be up to 200,000 JPY. However, if you live overseas and your airfare is likely to exceed the maximum allowance, please consult with us after adoption.
 - You will be responsible for the shipping costs of the samples you bring with you, as well as food and miscellaneous daily expenses during your stay.
 - You will stay at the accommodation arranged by Kanazawa University.
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Publication of the results

- When the results obtained in the Bio-SPM Summer School are expected to be a part of a manuscript, etc., please consult with your instructor(s) before submitting, as is generally the case for collaborative research.