INTERMAG 2023
Lab Tour in Magnetism
Sendai, Japan • May 20, 2023

Applications accepted from 17th February

Date: 20th May 2023
Maximum capacity: First 100 applicants. Advance reservation is required
Admission fee: Free
Reservation deadline: 14th April
Departure: Parking lot next to the International Center subway station at 8:40 am
Return: Aobayama subway station or JR Sendai station at 1:30 – 2:00 pm

Tour description
Tohoku University is honored to offer you the “INTERMAG 2023 Lab Tour in Magnetism”. Sendai is well known as a center of World-Class Magnetics Research Facilities. Sendust (soft magnetic FeSiAl alloy), perpendicular magnetic recording and room temperature large tunnel magnetoresistance were invented here in 1932, 1977 and 1994, respectively. Advanced spintronics technologies, including magnetic sensor, nonvolatile memory, and probabilistic computing are now being actively developed. This is a wonderful opportunity to visit these front-line research sites. Visitors will be divided into groups of about 10 people.

Tour destinations
- Institute for Materials Research (Katahira Campus)
- Laboratory for Nanoelectronics and Spintronics (Katahira Campus)
- The Center for Innovative Integrated Electronic Systems (Aobayama New Campus)
- Nano Terasu (new synchrotron facility for nanostructure research) (Aobayama New Campus)
- Research Center for Rare Metal and Green Innovation (Aobayama New Campus)

Important information
Masks must be worn indoors (we prioritize your health). There will be no cloakroom facility and we strongly recommend that you do not bring luggage. Kindly take care of your personal belongings. No lunch will be provided. The organizer will not provide travel insurance for Lab Tour participants. During the tour due consideration will be given to everyone's safety and there are no hazards that could lead to accidents within the scope of common-sense behavior. Please note that the tour may be cancelled due to COVID-19.
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Visiting spots
Aobayama New Campus

Nano Terasu
(New synchrotron facility for nanostructure research)

CIES
300 mm wafer R&D line for spintronic logic semiconductor

RaMGI
Magnetocardiography measured by TMR sensor

Chemical Lab.

Permanent magnet Lab.

Motor demonstration Lab.

Katahira Campus

Institute for Materials Research

Father of Steel
“Prof. Dr. Kotaro Honda”

Laboratory for Nanoelectronics and Spintronics
Sponsors and Collaborating Organizations

Tohoku University

Center for Science and Innovation in Spintronics, Tohoku Univ.
Institute for Materials Research, Tohoku University

Center for Spintronics Research Network, Tohoku Univ.
Center for Innovative Integrated Electronic Systems, Tohoku Univ.

Advanced Institute for Materials Research, Tohoku Univ.
City and Campus Map
International Center and Tohoku University Campus

Sendai city

Seiryo Campus

Seiryo sta.

International Center sta.
5 min from Sendai sta.

Sendai sta.

Hirose river

Aobayama sta.
9 min from Sendai sta.

Kawauchi Campus

Aobayama Campus

Aobayama New Campus

Sendai castle

Katahira Campus

Location of magnetic related laboratories in Tohoku Univ.

1. Graduate School of Science
2. Graduate School of Engineering
3. Graduate School of Biomedical Engineering
4. Frontier Research Institute for Interdisciplinary Science (FRIS)
5. Center for Innovative Integrated Electronics System (CIES)
6. Research center for Rare Metal and Green Innovation (RaMGI)
7. Nano Terasu (Facilities of synchrotron radiation for nanostructure)

8. Institute for Materials Research (IMR)
9. Center for Spintronics Research Network (CSRN)
10. Advanced Institute for Materials Research (AIMR)
11. Research Institute for Electrical Communications (RIEC)
12. Institute of Multidisciplinary Research for Advanced Materials (IMRAM)

Aobayama

Kawauchi

Aobayama New Campus

Katahira Campus

Visiting places of INTERMAG2023 Lab Tour in Magnetism