



# INTERMAG 2023 Lab Tour in Magnetism

Sendai, Japan • May 20, 2023

Special event sponsored by Tohoku University

Applications  
accepted from  
17<sup>th</sup> February

Date: 20<sup>th</sup> May 2023

Maximum capacity: First 100 applicants. Advance reservation is required

Admission fee: Free

Reservation deadline: 14<sup>th</sup> 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

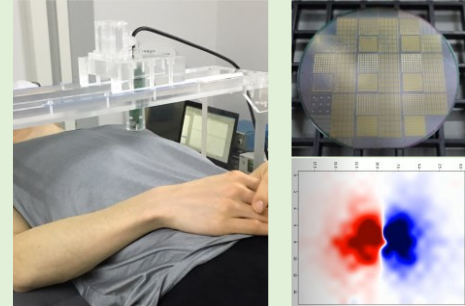
### Aobayama New Campus



Nano Terasu  
(New synchrotron facility for  
nanostructure research)



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



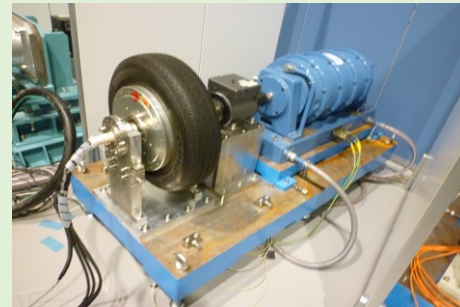
RaMGI  
Magnetocardiography  
measured by TMR sensor



Chemical Lab.

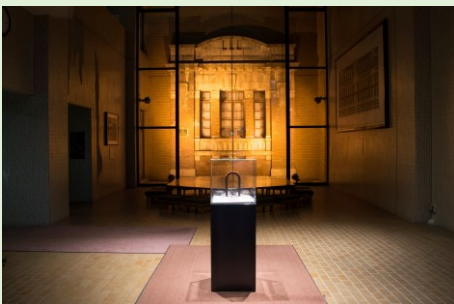


Permanent magnet Lab.



Motor demonstration Lab.

### Katahira Campus



Institute for Materials Research



Father of Steel  
"Prof. Dr. Kotaro Honda"



Laboratory for Nanoelectronics  
and Spintronics



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## Sponsors and Collaborating Organizations



TOHOKU  
UNIVERSITY



**CSRN** in CSIS   
@Tohoku univ.



東北大学 金属材料研究所

**IMR**

Institute for Materials Research, Tohoku University



## Tohoku University

Center for Science and Innovation  
in Spintronics, Tohoku Univ.

Center for Spintronics  
Research Network, Tohoku Univ.

Institute for Materials  
Research, Tohoku University

Center for Innovative Integrated  
Electronic Systems, Tohoku Univ.

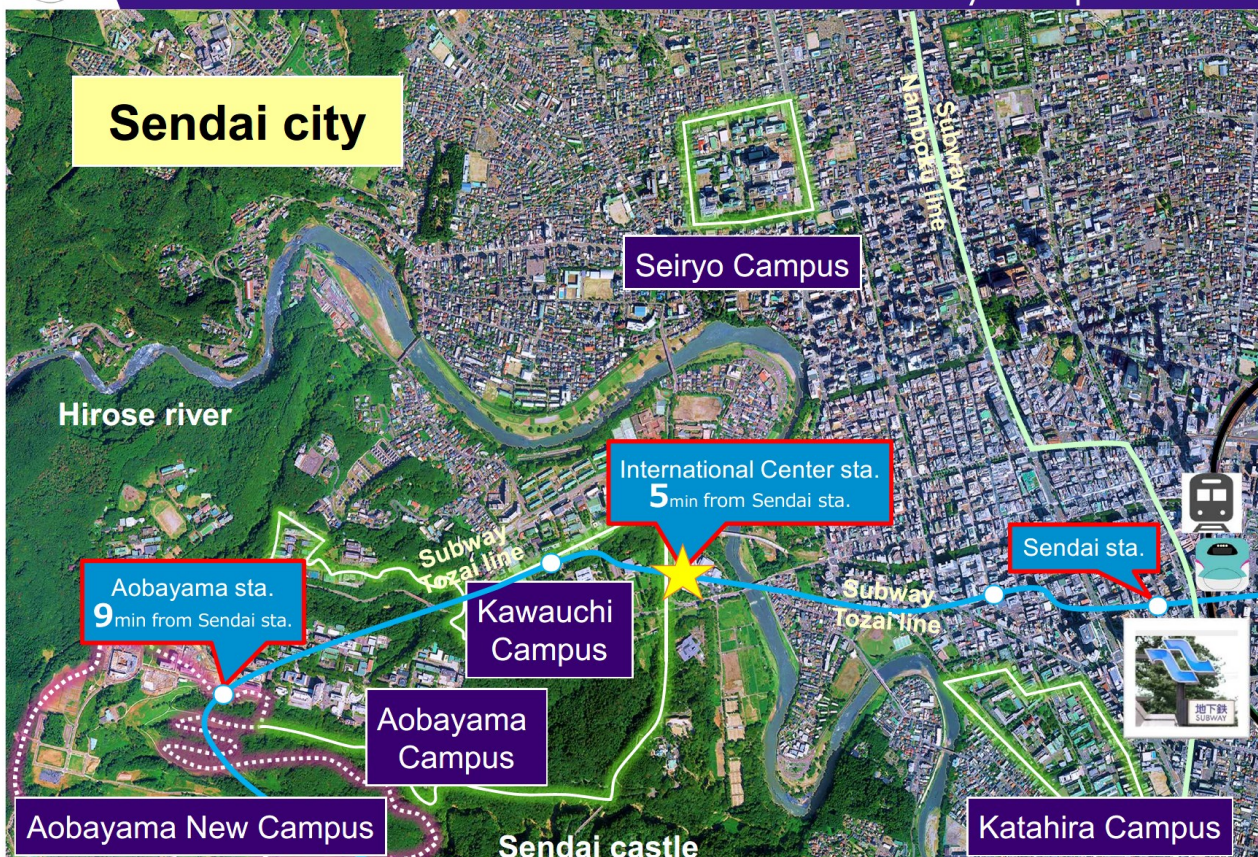
Advanced Institute for Materials  
Research, Tohoku Univ.





# City and Campus Map

## International Center and Tohoku University Campus



## Location of magnetic related laboratories in Tohoku Univ.

