Tokyo Tech

Creating sustainable societies through
[Material × Information] multi-talented
human resource development

Tokyo Tech **A**cademy for **C**onvergence
of **M**aterials and **I**nformatics (TAC-MI)

物質・情報卓越教育院

Doctoral Program for World-leading Innovative & Smart Education in Tokyo Tech

Materials and devices

Information technologies

Fusion between material science and information technologies based on Tokyo Tech's own research centers, such as Center for Element Strategy and TSUBAME super computer

Tokyo Tech Academy for Convergence of Materials and Informatics (TAC-MI) Start!

Multi-talented Individuals

Creating new industries by connecting "materials", which is Japan's strengths, to "services" by utilizing information science & technologies.

Produce leaders who create new industries as advanced professionals in materials science and informatics

Creating Sustainable Societies through [Material × Information] Multitalented Individuals Development

Society

Program in TAC-MI

- Global leadership
- Practical ability
- Broad perspective
- Creativity

Information science

Material science

Cultivate Creativity

Common fundamental course
M1~M2

Basic Materials Informatics (1C) 3Q

Students for Materials and Information
Materials Simulation (2C) 3Q
Materials Informatics (2C) 4Q

Exercise class using TSUBAME

If you have taken Materials Simulation and Materials Informatics, the course will be counted as a "Major Courses" in some courses. (Refer to the study guide for details)

Materials-Informatics Interdisciplinary Research Skills
M1~M2

Short term research

Laboratory for Material

Laboratory for Information

To a laboratory different from your specialty **Laboratory rotation**
 *including NIMS at Tsukuba as an Information lab.

Self-Designed Thesis D2~

Students are encouraged to set up self-finding topics in between Material and Information, such as different ones from the doctoral research of your Major.

Tokyo Tech original Practice School in Materials Informatics

A team including the Institute faculties and students stays at a company for 6 weeks. We provide technical consulting utilizing material & information science on important issues of companies.

Practice School in Materials Informatics I

- Do modelling of target systems
- Held as an intensive course (in the Tokyo Tech)

Practice School in Materials Informatics II

- Solve the problems at the assigned company by teams
- Propose new directions at the final report

Solving actual problems

History & Future Plan

2019 **World's first Practice School for Material and Information** at Asahi KASEI
2020 Practice School was held at Asahi Kasei and TDK.
2021 Practice School was held at Asahi Kasei and AIST.
2022~ Scheduled to be held at 2 sites every year

Cultivate Broad Perspective and Global Leadership

Tokyo Tech

Intelligent Services: a Social Perspective

(Until 2019,
"Business Model Training Camp")

D1 & D2

Develop Broad Perspective and Leadership

- Propose services for future society by the Teams
Material / Information Field Students & Overseas Students
Hybrid Team (Doctoral Research / Knowledge → Connect to Society) → Award prizes

International Forum

D1 & D2

Improve international communication skills

- D1 students give presentations. → Award prizes
- Face-to-face meeting with overseas advisors

Financial support for TAC-MI students

Financial support and 3 Examinations for quality assurance in TAC-MI

- The above amount is the total amount of the financial support for TAC-MI students, including TAC-MI scholarship, Tokyo Tech Tsubame Scholarship for Doctoral Students(480,000 yen/year) and the RA salary from the lab, etc.

TAC-MI will pay RA salary for JSPS DC1/DC2, MEXT Scholarship foreign students, students selected for “Human Resource Development Fellowship” or “Cross the border! Tokyo-Tech pioneering doctoral research program” addition to those financial support.

AY2022 Fall Semester Student Recruitment Briefing

If you are interested in TAC-MI program,
please participate in the briefing session.

Schedule **Wednesday, April 27, 2022**

- ① 16:30~17:15 Explanation in English
- ② 17:15~18:00 Explanation in Japanese
- ③ 18:00~19:00 Exchange Meeting with TAC-MI Students

To be live-streamed using Zoom

How to register

If you wish to participate in the briefing session,
please register from the TAC-MI website.

※It is posted as a questionnaire on the Web Services for
Students and Faculty. You can also register from there.

<https://www.tac-mi.titech.ac.jp/en/event/ay2022fall-briefing/>

Join TAC-MI !

Director
Takeo YAMAGUCHI
Institute of Innovative
Research

**Please feel free to
contact these professors!**

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TAC-MI HP : <https://www.tac-mi.titech.ac.jp/en/>

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