

Tokyo Metropolitan Public University Corporation

Digest Guide 2024



TOKYO
METROPOLITAN
UNIVERSITY



ADVANCED INSTITUTE OF
INDUSTRIAL TECHNOLOGY



Tokyo Metropolitan College
of Industrial Technology





Helping to Build a Society Capable of Sustainable Development

-Confronting the Climate and Environmental Emergency

The Tokyo Metropolitan Public University Corporation operates two universities (Tokyo Metropolitan University and the Advanced Institute of Industrial Technology) and one college (the Tokyo Metropolitan College of Industrial Technology). The former corporation, the Public University Corporation Tokyo Metropolitan University, was established when Tokyo Metropolitan University opened in 2005. In April 2020, to mark a new direction, it was renamed the Tokyo Metropolitan Public University Corporation.

As you are aware, the massive human-generated emission of greenhouse gases is accelerating global warming and causing extreme weather events almost every year. In 2023, the average global temperature was the highest ever recorded.

As carbon dioxide does not recognize international borders, a global response is essential to resolving this issue. Many nations and local governments have already declared climate change emergencies, and they are embarking on major social transformations designed to achieve carbon neutrality by 2050 to comply with the goals of the Paris Agreement. The Tokyo Metropolitan Government also declared a climate emergency in December 2019, and is accelerating efforts to reach net zero CO₂ emissions by 2050.

Since we are determined to help create a sustainable society, our corporation took the initiative to issue a Climate Emergency Declaration in July 2021, a first for a national or public university. In addition, in March 2023, we developed the Carbon Neutral Promotion Plan, with the aim of achieving carbon neutrality by 2050 as a socially responsible higher education institution.

Climate change and intensified human activities are also seriously affecting ecosystems and causing biodiversity loss. Achieving “nature positive”—halting and reversing biodiversity loss—is viewed as a vital international goal.

Consequently, in July 2024, we issued our Nature Positive Declaration, spelling out our commitment to preserving the ecosystem, researching it, and conducting educational activities about it. We will proactively promote initiatives designed to achieve carbon neutrality and nature positivity.

As human civilization approaches a historic turning point, we will do our utmost to resolve issues such as climate and environmental emergencies. At the same time, we will continue to take on humanity’s shared challenges, such as achieving the targets of the Paris Agreement and the Sustainable Development Goals from a global perspective.

We hope to expand our role as a think tank for the Tokyo Metropolitan Government, our founder, and as a school rooted in Tokyo and open to the world to help build a society capable of sustainable development.

■ Corporation Profile

Name: Tokyo Metropolitan Public University Corporation

Establishment date: April 1, 2005

Address: 2-3-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo

Officers: (as of July 1, 2024)

Chairperson

- YAMAMOTO Ryoichi

Vice Chairpersons

- OHASHI Takaya (President, Tokyo Metropolitan University)
- HASHIMOTO Hiroshi (President, Advanced Institute of Industrial Technology)
- NOMA Tatsuya (Director of Administration, Tokyo Metropolitan Public University Corporation)

Executive Directors

- YOSHIKAWA Masasumi (President, Tokyo Metropolitan College of Industrial Technology)
- YAMASHITA Hideaki (Vice President, Tokyo Metropolitan University)
- KACHI Naoki (Executive Advisor of the President, Tokyo Metropolitan University)

Auditors

- UNOTORO Keiko (Part-time Auditor)
- OKAMURA Toshikatsu (Part-time Auditor)

Number of employees (as of May 1, 2024): 661



YAMAMOTO Ryoichi

Chairperson

Tokyo Metropolitan Public University Corporation

■ Midterm Goals (the fourth term, 2023 to 2026)

Tokyo Metropolitan Public University Corporation Basic Goals

Tokyo Metropolitan University, the Advanced Institute of Industrial Technology, and the Tokyo Metropolitan College of Industrial Technology will advance research and educational activities in close cooperation with the Tokyo Metropolitan Government in a way that only *metropolitan* institutes of higher education can. This includes developing the next generation of Tokyo’s leaders, creating new knowledge, and conducting research that solves the problems of a major metropolis. We also have a mission to present these results to the people of Tokyo and the broader community, and by extension to the rest of the world.

At the same time, however, the higher education environment has greatly changed in recent years. The diverse problems modern society faces—including but not limited to the climate crisis—are occurring on a global scale and growing increasingly complex. No single individual or organization can solve them. Addressing them will require academia, industry, government, regional society and other groups to join forces in an effort that transcends organizational standpoints and boundaries.

Within this context, the so-called Fourth Industrial Revolution is changing the structure of society at an ever-increasing pace. While other

countries are making huge investments in R&D and talent development in growing fields such as digital transformation and decarbonization, however, Japan’s international presence has declined significantly in these areas.

Given these circumstances, the size of the role higher education plays is growing at an exponential rate. A declining birth rate, increasing globalization and other factors have pitted Japanese universities and colleges against increasingly fierce competition, both amongst themselves and from abroad. Japan’s educational institutions must decide on a business strategy that advances high-quality education and research activities and responds to social expectations.

Taking these factors into account, the Tokyo Metropolitan Public University Corporation has designated the four pillars below in our fourth term midterm goals as we engage in diverse research and education activities that contribute to society:

- Creating new values by closely cooperating with society
- Education
- Research
- Corporate administration



Tokyo Metropolitan University

CHECK!



Enhancing Our Research Ability and Translating It into Education

Since AY2023, we have been executing our Research Enhancement Initiative, which features 7 strategies and 21 initiatives, with a goal of enhancing our research capabilities. The initiative will heavily promote the upgrading of research environments, securing more time for research, developing young researchers, and a wide range of support. The latter includes assistance for doctoral students, various support to make obtaining external funding easier, and measures for securing excellent researchers.

This initiative targets all fields that our research covers, ranging from the fundamental to the applied, the breadth of which characterizes our university. It is beginning to produce positive results, such as securing relatively large research grants. We will continue to focus our efforts on this initiative.

In addition, the Hino Campus's new Building No. 6 opened in the fall of 2023. It houses the TMU Innovation Hub—a space aimed at supporting industry-academia-municipality collaborations and university ventures, and also facilitates the sharing of research equipment. In addition, we are enhancing our capabilities in the realm of information science.

Conducting excellent research and translating it into education is one of our key missions. We were selected for JST's Support for Pioneering Research Initiated by the Next Generation program, through which we offer various support options for young researchers pursuing success in a variety of careers. We will also continue to advance measures such as upgrading our common education for all faculties and departments, offering our Mathematics and Data Science minor course, and improving the quality of our educational offerings by grasping students' learning outcomes. By doing so, we will foster talented people who possess solid fundamental abilities, think for themselves, and take on challenges, and support vibrant campuses full of students fully engaged in both academic and extracurricular activities.

The Globalization of Education and Research

As a university established by the Tokyo Metropolitan Government, we believe that vigorous promotion of internationalization based on clear goals is a key issue for us. We have therefore revised the TMU Internationalization Action

Plan and engaged in a great number of internationalization initiatives. This plan included launching the Tokyo Global Partner Scholarship Program, which is awarded to high-achieving graduate students from abroad, as well as creating several master's programs that can be completed in English.

Our other efforts include studying the establishment of a double degree system, expanding eligibility for our international minor programs, and expanding the list of Semester Abroad at Tokyo Metropolitan University courses (for short-term study-abroad students). We have also begun discussions aimed at strengthening internationalization at the university as a whole.

Promotion of Lifelong Learning

Now in its sixth year, Tokyo Metropolitan University Premium College provides an educational program (maximum four years) that features a main course, a major course, and a research student course. A place for systematic senior learning and interaction, the college attracts many highly motivated individuals and demonstrates that life is enriched by continuing to learn.

Meanwhile, Tokyo Metropolitan University Open University offers a range of lectures on subjects that will attract the interest of society, as well as lectures for high school students that take full advantage of online learning. We are strongly promoting lifelong learning through these programs.



OHASHI Takaya

President
Tokyo Metropolitan University



■ Faculties

Faculty of Humanities and Social Sciences	Department of Human and Social Sciences, Department of Humanities
Faculty of Law	Department of Law
Faculty of Economics and Business Administration	Department of Economics and Business Administration
Faculty of Science	Department of Mathematical Sciences, Department of Physics, Department of Chemistry, Department of Biological Sciences
Faculty of Urban Environmental Sciences	Department of Geography, Department of Civil and Environmental Engineering, Department of Architecture, Department of Applied Chemistry for Environment, Department of Tourism Science, Department of Urban Science and Policy
Faculty of Systems Design	Department of Computer Science, Department of Electrical Engineering and Computer Science, Department of Mechanical Systems Engineering, Department of Aeronautics and Astronautics, Department of Industrial Art
Faculty of Health Sciences	Department of Nursing Sciences, Department of Physical Therapy, Department of Occupational Therapy, Department of Radiological Sciences

■ Graduate Program

Graduate Program of Midwifery

■ Graduate Schools

Graduate School of Humanities	Department of Behavioral Social Sciences, Department of Human Sciences, Department of Philosophy, History and Cultural Studies, Department of Intercultural Studies
Graduate School of Law and Politics	Department of Law and Politics, Law School
Graduate School of Management	Department of Management
Graduate School of Science	Department of Mathematical Sciences, Department of Physics, Department of Chemistry, Department of Biological Sciences
Graduate School of Urban Environmental Sciences	Department of Geography, Department of Civil and Environmental Engineering, Department of Architecture and Building Engineering, Department of Applied Chemistry for Environment, Department of Tourism Science, Department of Urban Science and Policy
Graduate School of Systems Design	Department of Computer Science, Department of Electrical Engineering and Computer Science, Department of Mechanical Systems Engineering, Department of Aeronautics and Astronautics, Department of Industrial Art
Graduate School of Human Health Sciences	Department of Nursing Sciences, Department of Physical Therapy, Department of Occupational Therapy, Department of Radiological Sciences, Department of Frontier Health Sciences, Department of Health Promotion Sciences

■ Number of Students (as of May 1, 2024)

Undergraduate: 6,876; Graduate Program: 10; Graduate School: 2,261

■ Number of Faculty (as of May 1, 2024)

Professors: 285; Associate Professors: 230; Assistant Professors: 136; Research Associates: 1

Topics

Launch of the Research Enhancement Initiative

In June 2023, we launched the Research Enhancement Initiative to extend support that enhances our research capabilities. Led by the president, the vice president of research and the members of the executive committee have compiled 7 overarching strategies and 21 underlying initiatives after more than a year of discussions.

Letting faculty members pursue distinctive research in a relaxed and unrestrained manner will enhance their research capabilities, and the results of the excellent research they do can then be returned to society. This excellent research can also be translated back into education, creating a virtuous cycle of education and research that develops highly capable individuals.

The corporation and the university, along with the faculty and staff, will continue to work as one to advance the initiative's various measures, all while sharing their opinions with each other.

You can find a message from the president about the Research Enhancement Initiative, as well as information on the project's major initiatives in the Hot Topics section of the Tokyo Metropolitan University website.



Advanced Institute of Industrial Technology

CHECK!



Our Missions

The Advanced Institute of Industrial Technology (AIIT) opened in April 2006 with three missions: to nurture the highly specialized professionals who play key roles in the development of industrial technology in the capital city of Tokyo; to contribute to society by spreading knowledge to every corner of Tokyo; and to promote practical problem-solving research and development.

Promoting Recurrent Education

Due to the high need for recurrent education and reskilling, working adults make up more than 80 percent of Advanced Institute of Industrial Technology (AIIT) students. They come from diverse backgrounds, including employees from major firms and budding startup founders. AIIT also provides working adults with a number of systems to advance their learning. This includes our DX education system, AIIT Academic Credit Bank System, long-term study system, October admissions system, and HyFlex (Hybrid-Flexible) classes.

AIIT's School of Industrial Technology has established three graduate-level courses. The first is the Business Systems Design Engineering course, which trains students to create new industries through entrepreneurship, business startups and business succession. The second is the Information Systems Architecture course, which trains a variety of advanced IT specialists capable of achieving success in the upstream processes of information systems development. The third is the Innovation for Design and Engineering course, which cultivates innovators able to integrate aesthetics and function. These courses offer curriculums that confer a professional degree of Master of Technology in Business Systems Design Engineering, Master of Technology in Information Systems, and Master of Technology in Innovation for Design and Engineering, respectively.

Promoting Practical Problem-Solving Research and Development

We have several research institutes dedicated to a wide range of fields that include IT, service science, AI, technology management, medical and welfare information, and social science. Each institute is pursuing practical problem-solving research and development dedicated to solving social/urban problems and/or creating value. They are also working to disseminate knowledge through research presentations in Japan and abroad as well as to promote its social implementation.

Training to Help Seniors with Startups and Establishing Businesses

Building on the results of our Ministry of Education, Culture, Sports, Science and Technology (MEXT)-supported advanced talent development program, we started our AIIT Senior Startup Program

in FY2018, with the support of the Tokyo Metropolitan Government. The program was renewed as the Tokyo Tech Innovation Program in FY2022.

This program is designed to train seniors to start and develop businesses that are free from geographic restrictions by using IT and design engineering to increase productivity and add value.

Global Activities

We train global talent in our capacity as the secretariat of the Asia Professional Education Network (APEN), which encompasses universities from ten ASEAN members as well as Japan, China, South Korea and India.

In AY2023, we organized the APEN (Asia Professional Education Network) workshop and Board of Directors meeting in Malaysia in an effort to promote education and research collaboration in Asia.

Graduate school

Industrial Technology Graduate Course

- Master's program of technology
- Business Systems Design Engineering Course
- Information Systems Architecture Course
- Innovation for Design and Engineering Course

■ Number of students (as of May 1, 2024)
230

■ Number of faculty (as of May 1, 2024)
Professors: 18
Associate Professors: 1
Assistant Professors: 8



HASHIMOTO Hiroshi

President

Advanced Institute of Industrial Technology

Topics

AIIT Recurrent Education Program on Senior HR Management That Benefits Society

Our program titled "AIIT Recurrent Education Program on Senior HR Management That Benefits Society" was selected for the Ministry of Education, Culture, Sports, Science and Technology's Project for Promotion of Recurrent Education to Produce Work-ready Human Resources in Growth Sectors in AY2023.

This program effectively combines our recurrent education for working adults with our insights into education systems that fully incorporate digital technology. We offer our regular classes as well as new, specialized classes tailored for this program. The topics covered include jobs and tasks suited for seniors, business management and service science, as well as practical skills based on these subjects.



Tokyo Metropolitan College of Industrial Technology

CHECK!



About Kosen (Technical Colleges)

The Tokyo Metropolitan College of Technology and Tokyo Metropolitan College of Aeronautical Engineering were established in December 1962 as public technical colleges alongside national technical colleges. This was in response to industry's insistent requests for trained technicians who could drive the greater scientific and technical progress Japan needed to sustain the remarkable economic growth the country began in the 1950s. In 2022, Japan's Institutes of Technology (*Kosen*) system reached its 60th anniversary, and the system now encompasses 58 schools, including 51 national, 3 public, and 4 private institutes. Students who graduate after completing a regular course at these schools receive an associate degree, and those who complete the two-year advanced course after that can acquire a bachelor's degree in engineering by undergoing a National Institution for Academic Degrees and Quality Enhancement of Higher Education review.

Engineer Development at TMCIT

The Tokyo Metropolitan College of Industrial Technology (TMCIT) was established in 2006 through a constructive integration of the aforementioned two technical colleges in response to the increasing sophistication and complexity of science and technology. TMCIT's overall goal is to develop practical engineers possessing high levels of expertise through eight unique educational courses.

As science and technology rapidly advance and industry becomes more sophisticated and borderless, demand is growing for core engineers with high levels of specialized knowledge and skills who can succeed on an international stage.

As Tokyo's higher education institute of integrated *monozukuri* education, TMCIT is responding to this situation through various initiatives to develop engineers capable of specifically meeting the needs of Tokyo and of industry.

Developing the Engineers Who Will Lead Japan's New *Monozukuri*

One of our campus-wide initiatives is driving quality assurance through the continuous improvement of our internationally accepted engineer educational program. To help our graduates take their first confident step into active roles in the world, we offer a variety of international exchange programs and overseas experience programs.

To take advantage of the features of our courses, in AY2016 we started two practical engineer development programs to respond to the strong demands of industry: the Shinagawa Campus' Focus Program on Computer Security and the Arakawa Campus' Focus Program on Aeronautical Engineering.

Several dozen students have completed each of these programs and already started careers at some of Japan's leading information security firms, aviation-related companies, and other employers.

In AY2021, we established two new courses at the Shinagawa Campus. The first is the AI and Smart Engineering Program, where students learn digital *monozukuri*, which actively uses computer and AI technologies. The second is the Information Systems Program, which develops the engineers who will lay the foundation for the information industry's future.

Meanwhile, the Arakawa Campus has launched a Medicine Engineering Cooperative Education and Research project, which is comprised of three programs: the interdisciplinary Future Engineering Education program trains students to handle the social implementation of a combined form of IoT and AI technologies; the Medicine-Engineering Cooperation Collaborative Research program teaches students how to identify and solve issues together with paramedical staff and other medical professionals; and the Medicine-Engineering Cooperation Business program provides recurrent education to medical device engineers. In AY2023, the Future Engineering Education program produced its first class of graduates. Meanwhile, the Shinagawa Campus has incorporated digital technology into its experiments and practical training at its Multipurpose Factory training facility as a way to upgrade the transfer of skills and techniques between generations through digital transformation. Further, in AY2023 we launched the Startup Educational Support Program, Chidou Keikaku.

By steadily advancing such initiatives, we will contribute to society by developing core engineers with practical skills who precisely meet the needs of Tokyo and of industry, and the engineers who are the future leaders of Japan's *monozukuri*.

■ Regular and advanced courses

Regular course (*Monozukuri* Engineering Department)
Advanced innovative engineering course

■ Number of students (as of May 1, 2024)

Regular courses: 1,573

Advanced courses: 72

■ Number of faculty (as of May 1, 2024)

Professors: 53

Associate Professors: 53

Assistant Professors: 13



YOSHIZAWA Masasumi

President

Tokyo Metropolitan College of Industrial Technology

Topics

TMCIT's Human-Powered Aircraft Club "Team ЯTR" competes at forty-fifth Birdman Rally 2023!

The Arakawa Campus human-powered aircraft club Team ЯTR competed in the glider category of the forty-fifth Japan International Birdman Rally 2023.

Their glider was piloted by fourth-year Medical and Welfare Engineering Program student Yuta Suzuki, who trained by recording 1,700 "flights" using the TeamЯTR flight simulator. The simulator, which required eighteen years of development to reach a practicable level, was used to develop and back up the flight plan for the competition.

Thanks to all of the simulator training and the club's painstaking fabrication efforts, the flight went off without a hitch, with Suzuki's intrepid flying resulting in a distance of 285.90 meters. This result placed the team fifth amongst the sixteen gliders that competed.

This was TeamЯTR's twentieth outing at the Birdman Rally. The club will continue innovating with the hope of higher finishes, including someday taking the top prize.



History



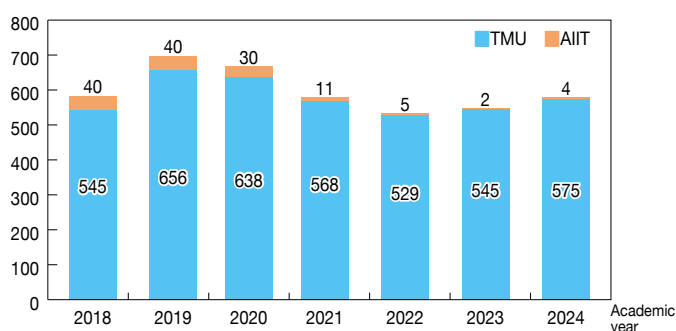
Data

Fiscal 2023 budget and financial results

(Unit: million yen)

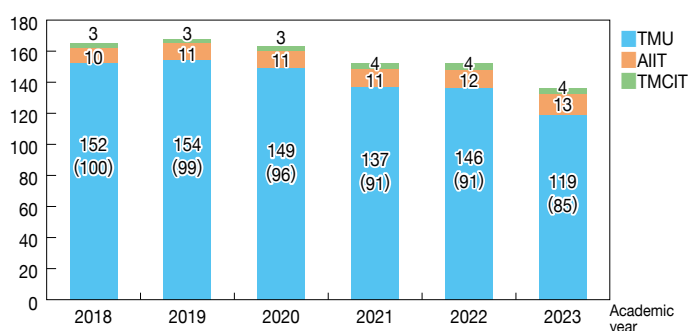
Category	Budget	Actual	Difference (Actual - Budget)
Income			
Operating expense grants	19,940	19,836	-104
Facilities expense subsidies	3,419	3,027	-392
Self-generated income	6,028	7,256	1,228
Income from tuition and admission and entrance exam fees	5,314	5,254	-60
Other income	714	2,002	1,288
External funds	1,866	2,537	671
Liquidation of appropriated surplus	1,806	1,299	-507
Liquidation of reserve fund for efficiency promotion expenses	-	-	-
Total	33,059	33,956	897
Expenditures			
Operating expenses	27,774	25,618	-2,156
Education and research expenses	21,307	19,174	-2,133
Administrative expenses	6,467	6,444	-23
Facilities maintenance expenses	3,419	3,027	-392
Externally funded research expenses	1,866	2,494	628
Total	33,059	31,139	-1,920
Income - Expenditures	-	2,817	2,817

Number of international students



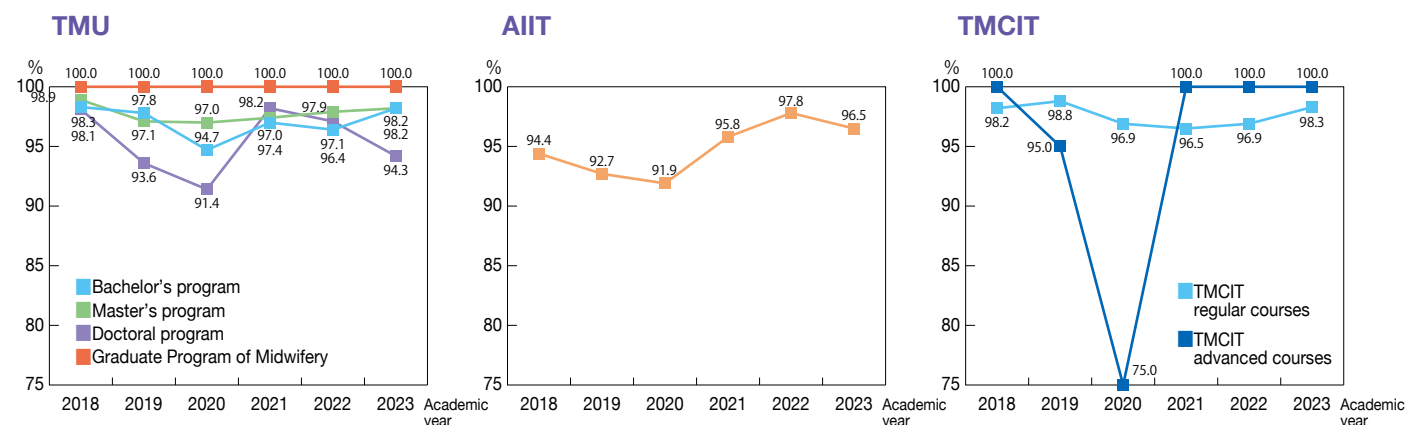
Note: As of May 1 for each academic year

Number of international agreements (entire university)



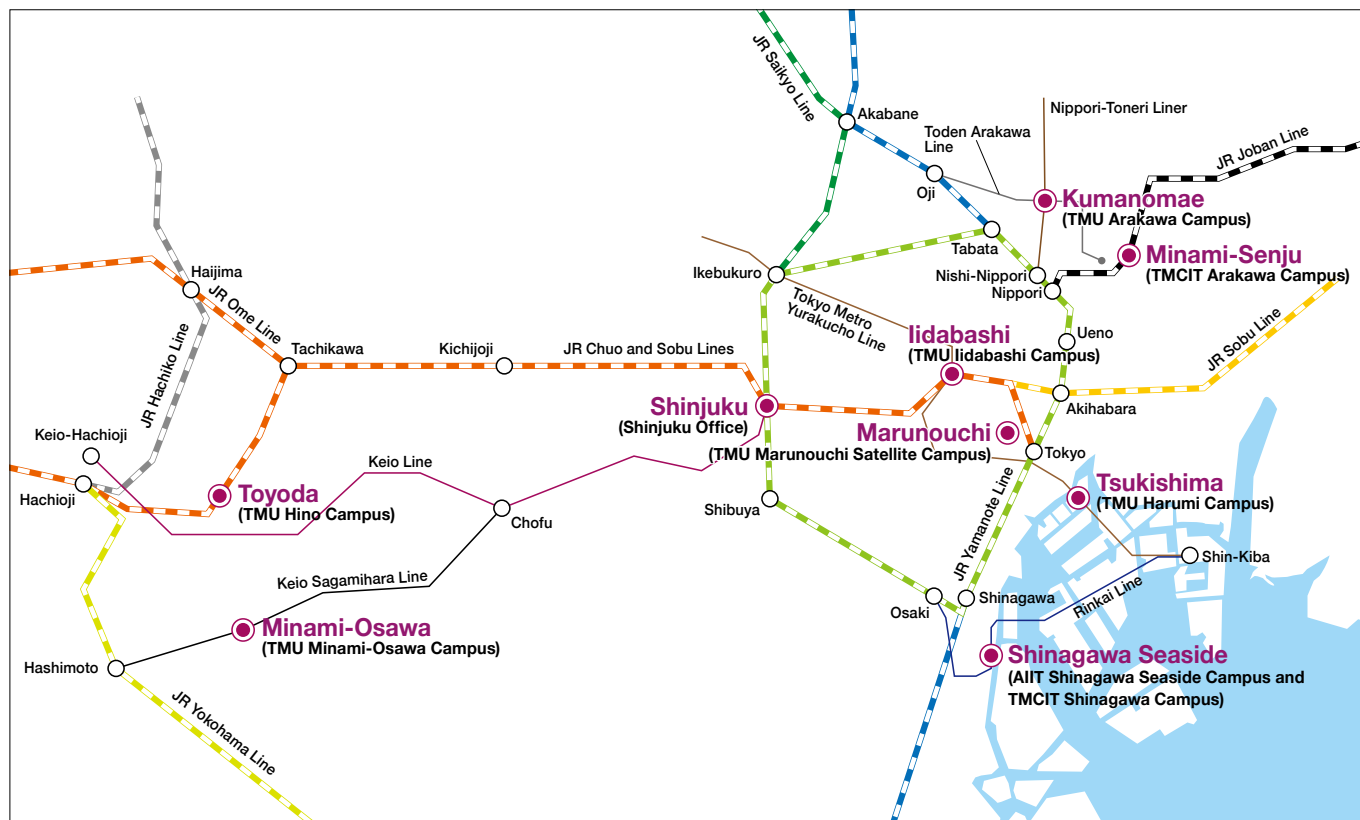
Notes: 1. As of March 31 for each academic year
2. The numbers in parentheses for TMU are the numbers of schools

Employment rate



Note: Excludes the Law School

Access guide



For more information

Section	Contact number	Remarks
Management & Planning Office	03-5990-5389	General information about Tokyo Metropolitan Public University Corporation
Tokyo Metropolitan University		
Minami-Osawa Campus	042-677-1111 (main switchboard)	Information about TMU's Faculty of Humanities and Social Sciences, Faculty of Law, Faculty of Economics and Business Administration, Faculty of Science, and Faculty of Urban Environmental Sciences, and TMU Premium College
Hino Campus	042-585-8606 (main switchboard)	Information about TMU's Faculty of Systems Design
Arakawa Campus	03-3819-1211 (main switchboard)	Information about TMU's Faculty of Health Sciences
Harumi Campus	03-3536-7756	Information about TMU's Graduate School of Law and Politics
Marunouchi Satellite Campus	03-6268-0521	Information about TMU's Graduate School of Management
Iidabashi Campus	03-3288-1050	Information about TMU's Open University
Advanced Institute of Industrial Technology		
Shinagawa Seaside Campus	03-3472-7831	Information about the Advanced Institute of Industrial Technology
Tokyo Metropolitan College of Industrial Technology		
Shinagawa Campus	03-3471-6331	Information about Tokyo Metropolitan College of Industrial Technology
Arakawa Campus	03-3801-0145	Information about Tokyo Metropolitan College of Industrial Technology
Industry-Academia-Public Collaboration Center	042-677-2729	Information about Industry-Academia-Public Collaboration