



筑波大学

University of Tsukuba

Outline of the University
Academic Year 2018 - 2019



**IMAGINE
THE
FUTURE.**



A Bastion of Liberal Education

Learn to envisage and create a better future at the University of Tsukuba.
 The University of Tsukuba is a future-oriented institution, and we have always sought to be an open university offering interdisciplinary education aimed at fostering internationally minded people. With faculties covering humanities, sciences, sports, and art, we are a university in the true sense of the original Latin meaning “the whole,” and aim to nurture tomorrow’s global leaders through a broad-ranging pursuit of academic excellence. Indeed, we seek to leverage our position in center of Tsukuba, Japan’s world-leading research hub, to promote harmonious coexistence among all humankind.



Crest



The University of Tsukuba’s “five-and-three paulownia” crest derives from the emblem adopted by Tokyo Higher Normal School students in 1903 for their school badge, which was inherited by the Tokyo University of Education in 1949. Later, in 1974, the University Council officially approved the crest as the school insignia of the University of Tsukuba. The “five-and-three paulownia” design is based on a traditional Japanese motif, but brings a unique variation to the classic style: the University of Tsukuba crest is different because only the outline of the flowers is depicted. The color of the crest is CLASSIC PURPLE, the official color of the University of Tsukuba.

Slogan

IMAGINE THE FUTURE.

Since its inception, the University of Tsukuba’s philosophy has been one of openness as we seek to forge a better future through education, research, and all other aspects of academia. That philosophy is summed up in our slogan, “IMAGINE THE FUTURE.”

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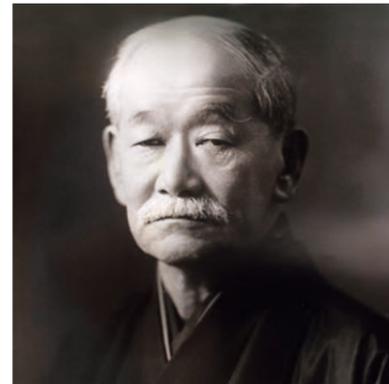
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Historical Events and Figures Related to the University of Tsukuba

The University of Tsukuba was established in 1973 as a comprehensive university to explore fields from literature and sciences through sports science and the arts. We are a new university only about 40 years old, but our roots go back as far as the Normal School, the first institute of higher education in Japan established in 1872. It was responsible for maintaining the education that formed the cornerstone of Japan's modernization. Although we are proud of our predecessor's history, we became committed to the ideals of "reform" and "new challenges" when the university relocated to Tsukuba.



Higher Normal School, 1890



Jigoro KANO
Principal of the Higher Normal School and the Tokyo Higher Normal School
Founder of the Kodokan Judo Institute
The first Asian member of the International Olympic Committee.

A number of figures related to the University of Tsukuba have received awards such as Dr. Sin-Itiro Tomonaga (former President and Professor Emeritus at the Tokyo University of Education) who received the Nobel Prize in Physics in 1965, Dr. Leo Esaki

(former President and Professor Emeritus at the University of Tsukuba) who received the Nobel Prize in Physics in 1973, and Dr. Hideki Shirakawa (Professor Emeritus) who received the Nobel Prize in Chemistry in 2000.



Sin-Itiro TOMONAGA
Professor Emeritus (Tokyo University of Education), former President of the Tokyo University of Education
Awarded the 1965 Nobel Prize in Physics, for his fundamental work in quantum electrodynamics, with profound consequences for the physics of elementary particles.



Leo ESAKI
Professor Emeritus, former President of the University of Tsukuba
Awarded the 1973 Nobel Prize in Physics, for the experimental discoveries regarding tunneling phenomena in semiconductors and superconductors.



Hideki SHIRAKAWA
Professor Emeritus
Awarded the 2000 Nobel Prize in Chemistry, for the discovery and development of conductive polymers.

1872

1873

1886

1902

1929

1949

1964

1973 1979

2002

2020

Tokyo Normal School
Normal School

Higher Normal School

Tokyo Higher Normal School

Tokyo University of
Literature and Science

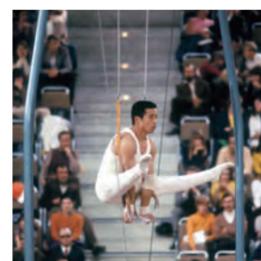
Tokyo University of Education

University of Library and
Information Science

University of Tsukuba

In addition, at world conferences like the Olympics, there have been a number of prominent athletes who had studied at our university. They have made a great many glorious achievements including Gold Medals.

Also, in 1909, Jigoro Kano, who served as the Principal of the Tokyo Higher Normal School and who was also known as the father of modern judo, became the first International Olympic Committee member from an Asian country, and created traditions devoted to spreading the Olympic movement in Japan. We have continued to promote both physical and academic education ever since the time of the Tokyo Higher Normal School, the university's predecessor.



Sawao KATO
Professor Emeritus
Gymnastics gold medalist at the 1968 Mexico, 1972 Munich and 1976 Montreal Olympics
Photo: Photo Kishimoto Corporation



Ayumi TANIMOTO
Judo gold medalist in the 63kg weight class at the 2004 Athens and the 2008 Beijing Olympics.
Photo: AFLO SPORT



Kozue ANDO
Saki KUMAGAI
Silver medalist in Women's football at the 2012 London Olympics.
Winning team members of Women's World Cup Football 2011
Runner-up team members of Women's World Cup Football 2015



Yoshihiro NITTA
Gold medalist in Cross-Country Skiing at the 2010 Vancouver and the 2018 PyeongChang Paralympics.
Photo by Hiro YAKUSHI

Research

As a university with a strong focus on research, our strength is the high-quality education offered through advanced research programs in a range of fields—from a bachelor's degree to a doctorate at the University of Tsukuba, all are broadly recognized as a sign of talent. Here,

devotion to mastery of specialized fields is combined with interdisciplinary partnerships and cooperation to offer the global excellence in education and research needed to make a genuine contribution to society.

Today's Young Researchers, Tomorrow's Leaders



Rie WAKIMIZU
Associate Professor, Faculty of Medicine

Research focused on helping families struggling with pediatric disorders

Family empowerment refers to the ability of families facing challenges to adjust their lifestyles and make improvements (including the ability to cooperate with outside entities such as other families, service systems, and the community). This research project is aimed at enhancing support structures that actually help families—and nurturing professionals who share the research insights they gain here in the workforce—by understanding families' capacity for "self-care" and the processes through which they are empowered in order to establish care based on empirical data regarding the empowerment of families with children who have health issues.

Child Health and Development Nursing

Empowering families with sick children



Sangtae KIM
Associate Professor, Faculty of Library, Information and Media Science

Research and creation of dynamic, interactive information expressions

People get more information visually than any of the other senses. Based on the concept of incorporating better design into IT and engineering so as to better take advantage of visual information, this project involves research and creation of 3D computer graphics. Uses are not limited to CG animation and games; indeed, this technology has potential for more graphically useful illustrations in medical texts, illustrated reference books, and even in the enjoyment of art.

Media Innovation

R&D of design which conveys information realistically and beautifully



Tohru ARIIZUMI
Associate Professor, Faculty of Life and Environmental Sciences

Developing low-labor, high-stability, high-quality, high-yield tomatoes with advanced breeding techniques

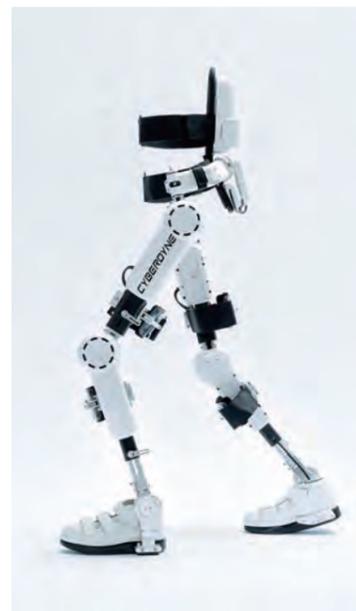
Tomatoes are one of the most important crops in Japan and around the world, but the ongoing decrease in, and aging of, the tomato farming population, combined with the need for intensive work and considerable costs to maintain crops mean tomatoes are comparatively expensive. We are endeavoring to create a low-cost method of cultivating high-quality tomatoes.

Plant Breeding and Genetics, Genomic Information Sciences

Unraveling the genetic network of tomato fruit formation and developing new cultivation techniques



World-Changing, Cutting-Edge Research



The University of Tsukuba is a world-leading innovation base, driving research into innovative cybernic systems such as Robot suits HAL® for medical use. Cybernics is an exciting new academic field with potential to change the future.

Yoshiyuki SANKAI

Professor, Faculty of Engineering, Information and Systems
Executive Research Director, Center for Cybernics Research
Program Manager, Impulsing Paradigm Change through Disruptive Technologies Program ("ImPACT"; initiated by the Japanese Cabinet Office)

The world's premier institute for sleep research aiming to solve mechanisms of sleep/wake regulation by conducting basic to translational research.

Unlock the secrets of sleep—one of the biggest mysteries of modern neuroscience

Masashi YANAGISAWA

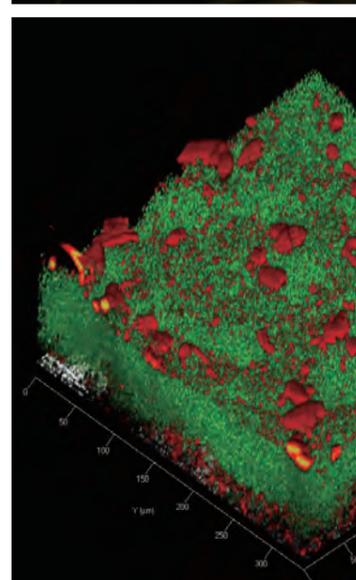
Professor, Director, International Institute for Integrative Sleep Medicine

An innovative project to create technologies for controlling and harnessing the functional effects of microbial communities. Unlocking the many mysteries of microbial communities

Nomura Microbial Community Control Project

Nobuhiko NOMURA

Professor, Faculty of Life and Environmental Sciences



The Center for Cybernics Research has pioneered a new academic field, "Cybernics: the fusion and combination of humans, robots, and information systems" to solve societal problems. We study and develop innovative technologies to resolve personal and societal problems caused by issues such as a declining birthrate and aging population, and to create new industries in fields such as healthcare, welfare, lifestyles, labor, and production. We also endeavor to nurture talent able to lead those industries into the future. As a global innovator, we seek to lead a virtuous innovation spiral to create a better future for people and society.

Robot suit HAL® for medical use acquired the medical device CE marking in the EU (2013). This feat was followed by an approval from the Ministry of Health, Labour and Welfare in Japan to manufacture and distribute this new medical device (2015). Moreover, it acquired the medical device approval from the U.S FDA (2017). Our challenges are to spark a cybernics revolution and bring about "Society 5.0/5.1," and "ZERO Intensive Nursing-care Society".

Director Yanagisawa and his colleagues discovered orexin, a novel neuropeptide, and its prominent role in the neuroscience of sleep. Their discoveries have opened up a new field in sleep research. Still, the fundamental mechanisms of sleep/wake regulation and molecular substrates for "sleepiness," as well as the function of sleep (why do we have to sleep in the first place?), remain great mysteries. Researchers in the institute are making efforts to solve these mysteries—indeed making remarkable achievements—with a wide variety of the latest research methods in molecular genetics, neuroscience, medicinal chemistry, and human physiology. They are also aiming to contribute to the reduction of sleep disorders and associated diseases.

Microbes are known to form communities that then interact with each other, and it is gradually becoming clear that these communities perform some surprising functions. Indeed, microbial communities in the environment may have a greater impact on our lives than the individual microbes that make up these communities. The Nomura Microbial Community Control Project was established to not only elucidate the interactions between microbes and the behavior of individual cells within diverse microbial communities, but also to visualize the interactions between these communities and the other life forms and environments around them. Moreover, the project aims to unlock the many remaining mysteries of microbial communities and create innovative technologies to harness their capabilities.

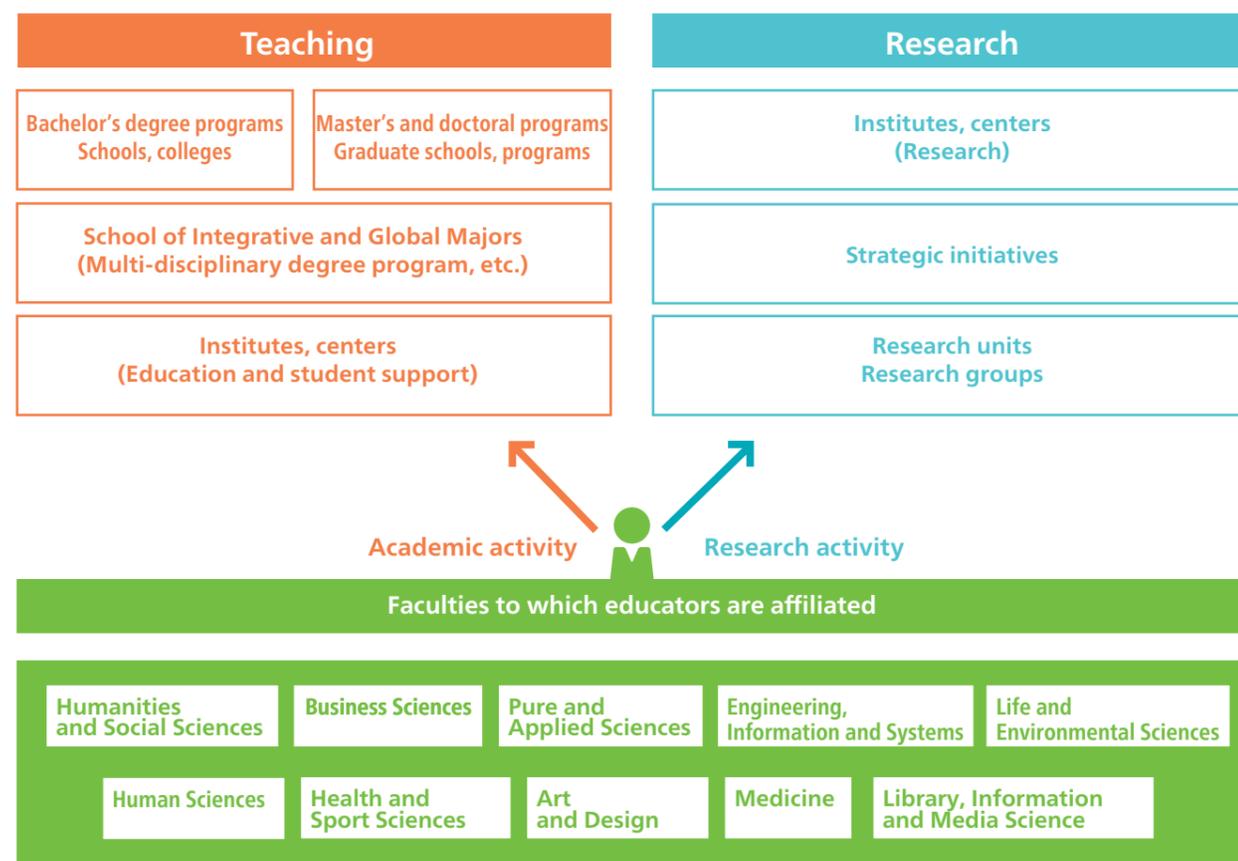
Academics

The University of Tsukuba students have plentiful opportunities to build up a broad liberal education by learning from many accessible disciplines in various schools and colleges — covering medicine, sports, and arts — outside of their chosen majors.

Interdisciplinary, Cross-Sectional Education System

Educators at the University of Tsukuba belong to “faculties”; each pursues basic research and teaches at his or her assigned school, college, graduate school, program, and center, but the basic affiliation remains with a single faculty. By making the organizational units that educators belong to (i.e., the faculties) independent of where they teach and

research, we have made it possible for educators to participate in different departments and schools, thus promoting a more interdisciplinary, cross-sectional structure conducive to the easier creation of new programs.



Tsukuba's New and Unique System of Faculty Affiliation

To accurately meet the needs of an ever-diversifying and ever-advancing environment, we are determined to ensure our academic and research organizations remain flexible and open, creating new programs and revamping organizations as appropriate to keep up with academic advancements and society's requirements. To that end, we have introduced a new organizational structure: Educators are now affiliated with “faculties,” which are separate from

the academic and research departments, thus enabling educators from one faculty to teach courses in multiple departments. There are currently ten faculties covering a broad spectrum of disciplines.



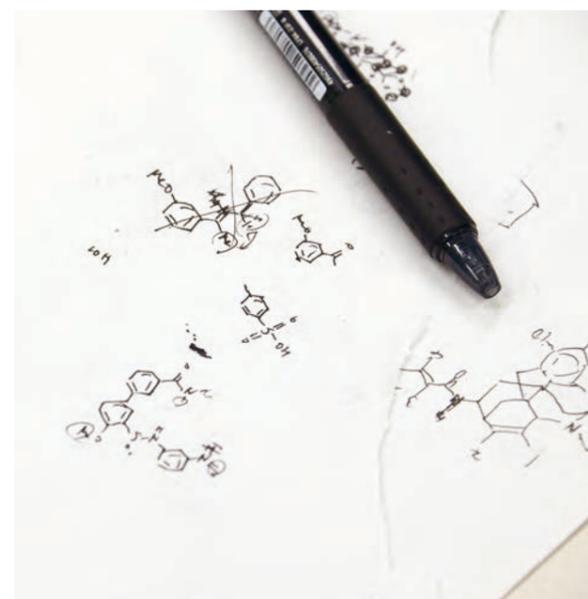
New Degree Program Model

Building an educational system with global validity and compatibility

The new degree program model at the University of Tsukuba is designed from the perspective of its students, who study to acquire the knowledge, skills, and competences most appropriate to their particular degrees. Namely, the academic content of the degree programs is structured according to the students' needs. Based on this model, our School of Integrative and Global Majors houses and operates the degree programs which transcend traditional organizational and disciplinary boundaries.

New degree programs

- 2012**
 - Established at the School of Integrative and Global Majors
 - Ph.D. Program in Human Biology
- 2014**
 - Established at the School of Integrative and Global Majors
 - Ph.D. Program in Empowerment Informatics
 - Established at the Graduate School of Systems and Information Engineering
 - Master's/Doctoral Program in Policy and Planning Sciences
 - Master's Program in Service Engineering
- 2015**
 - Established at the School of Integrative and Global Majors
 - Master's/Doctoral Program in Life Science Innovation
 - Established at the Graduate School of Comprehensive Human Sciences
 - Master's Program in Sport and Olympic Studies
 - Doctoral Program in Next Generation Sciences for Human Performance
- 2016**
 - Established at the Graduate School of Comprehensive Human Sciences
 - Doctoral Program in Sport and Wellness Promotion
- 2017**
 - Established at the Graduate School of Life and Environmental Sciences
 - Master's Program in Mountain Studies
 - Established at the Master's Program in Education
 - Master's Program in Education (International Education)
 - Established at the School of Integrative and Global Majors
 - Bachelor's Program in Global Issues



Schools and Colleges (Undergraduate Courses)

School of Humanities and Culture

College of Humanities
College of Comparative Culture
College of Japanese Language and Culture

School of Social and International Studies

College of Social Sciences
College of International Studies

School of Human Sciences

College of Education
College of Psychology
College of Disability Sciences

School of Life and Environmental Sciences

College of Biological Sciences
College of Agro-Biological Resource Sciences
College of Geoscience

School of Science and Engineering

College of Mathematics
College of Physics
College of Chemistry
College of Engineering Sciences
College of Engineering Systems
College of Policy and Planning Sciences

School of Informatics

College of Information Science
College of Media Arts, Science and Technology
College of Knowledge and Library Sciences

School of Medicine and Medical Sciences

School of Medicine
School of Nursing
School of Medical Sciences

School of Health and Physical Education

School of Art and Design



Graduate Schools

Programs (Master's Program)	Programs (Doctoral Program)
Master's Program in Education (Master's Program) School Leadership and Professional Development Secondary Education International Education	
Graduate School of Humanities and Social Sciences (Doctoral Program) International Area Studies Philosophy (5-yr Doctoral Program) History and Anthropology (5-yr Doctoral Program) Literature and Linguistics (5-yr Doctoral Program) Modern Languages and Cultures International Public Policy International and Advanced Japanese Studies	Modern Languages and Cultures International Public Policy International and Advanced Japanese Studies

Programs (Master's Program)	Programs (Doctoral Program)
Graduate School of Business Sciences (Doctoral Program) (Tokyo Campus) Systems Management Advanced Studies of Business Law Law School Program (Professional Degree Program) MBA Program in International Business (Professional Degree Program)	Systems Management and Business Law
Graduate School of Pure and Applied Sciences (Doctoral Program) Mathematics Physics Chemistry Applied Physics Materials Science	Mathematics Physics Chemistry Nano-Science and Nano-Technology Applied Physics Materials Science Materials Science and Engineering
Graduate School of Systems and Information Engineering (Doctoral Program) Policy and Planning Sciences Policy and Planning Sciences Service Engineering Risk Engineering Computer Science Intelligent Interaction Technologies Engineering Mechanics and Energy	Policy and Planning Sciences Policy and Planning Sciences Risk Engineering Computer Science Intelligent Interaction Technologies Engineering Mechanics and Energy
Graduate School of Life and Environmental Sciences (Doctoral Program) Integrative Environment and Biomass Sciences (5-yr Doctoral Program) Geosciences Biological Sciences Agro-Bioresources Science and Technology Environmental Sciences Joint Master's Degree Program in Sustainability and Environmental Sciences Master Degree Program of Mountain Studies	Geoenvironmental Sciences Earth Evolution Sciences Biological Sciences Appropriate Technology and Sciences for Sustainable Development Biosphere Resource Science and Technology Life Sciences and Bioengineering Bioindustrial Sciences Sustainable Environmental Studies Advanced Agricultural Technology and Sciences
Graduate School of Comprehensive Human Sciences (Doctoral Program) Medical Sciences Sports and Health Promotion (Tokyo Campus) Joint Master's Program in International Development and Peace through Sport International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health Education Sciences Psychology Disability Sciences Lifespan Development (Tokyo Campus) <i>Kansei</i> , Behavioral and Brain Sciences Nursing Science Health and Sport Sciences Art and Design World Heritage Studies	Education School Education Psychology Disability Sciences Lifespan Developmental Sciences (Tokyo Campus) <i>Kansei</i> , Behavioral and Brain Sciences Nursing Science Physical Education, Health and Sport Sciences Art and Design World Cultural Heritage Studies Human Care Science Sports Medicine Coaching Science Joint Doctoral Program in Advanced Physical Education and Sports for Higher Education Sport and Wellness Promotion (Tokyo Campus)
Biomedical Sciences (4-yr Doctoral Program) Clinical Sciences (4-yr Doctoral Program)	
Graduate School of Library, Information and Media Studies (Doctoral Program) Library, Information and Media Studies	Library, Information and Media Studies
School of Integrative and Global Majors (SIGMA) (Doctoral Program) Ph.D. Program in Human Biology (5-yr Doctoral Program) Ph.D. Program in Empowerment Informatics (5-yr Doctoral Program) Master's Program in Life Science Innovation	Doctoral Program in Life Science Innovation

Degree Programs for International Students

In addition to traditional Japanese-taught programs, the University of Tsukuba offers the following degree programs for international students.

Degree programs taught in English

Undergraduate school	Program	Degree Level	Program Start
Social and International Studies	Undergraduate Program of International Social Studies	B	Sep.
Life and Environmental Sciences	Interdisciplinary Program of Life and Environmental Sciences	B	Sep.
Medicine and Medical Sciences	Undergraduate-Education Program for Medical Science	B	Sep.
Integrative and Global Majors	Bachelor's Program in Global Issues	B	Oct.
Science and Engineering	Bachelor's Program in Interdisciplinary Engineering (To be opened in Fall 2019)	B	Sep.

Graduate School	Program	Degree Level	Program Start
Humanities and Social Sciences	Program in Economic and Public Policy	M	Oct.
	Special Program in International Relations	M	Oct.
	African Business Education Initiative for Youth (ABE)	M	Oct.
Business Sciences	MBA Program in International Business	M	Apr.
Pure and Applied Sciences	Physics Course	M	Apr./Oct.
	Nano Chemistry Course	M	Apr./Oct.
	Applied Physics Course	M	Apr./Oct.
	Materials Science Course	M	Apr./Oct.
	Materials Science and Engineering Course	M	Apr./Oct.
Systems and Information Engineering	Computer Science English Program	M	Apr.
Life and Environmental Sciences	Biodiplomacy Course	M	Apr.
	Global Food Security Course*	M	Apr.
	Sustainability Science, Technology, and Policy (SUSTEP) Program	M/D	Oct.
	Joint Master's Degree Program in Sustainability and Environmental Sciences*	M	Sep.
	Arid Land Resources Course	D	Apr./Oct.
	International Agricultural Sciences Program	M/D	Oct.
Comprehensive Human Sciences	International Bioindustrial Sciences Course	D	Oct.
	Master's Program in Sport and Olympic Studies	M	Oct.
	Joint Master's Program in International Development and Peace through Sport**	M	Apr.
	Master of Public Health Program	M	Apr./Oct.
	Dual Master's Degree Program (in medical sciences)*	M	Apr./Oct.
Library, Information and Media Studies	International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health*	M	Sep.
	Doctoral Programs in Biomedical Sciences and Clinical Sciences (special selection of overseas residents)	D	Apr./Oct.
	LIS English Program	M/D	Oct.
	Education	Master of Arts in Education (International Education)	M
Integrative and Global Majors	Ph.D. Program in Human Biology	D	Apr.
	Ph.D. Program in Empowerment Informatics	D	Apr.
	Life Science Innovation	M/D	Apr./Oct.

*Joint/double degree programs with overseas partner universities

**Joint degree program with National Institute of Fitness and Sports in Kanoya, Japan

Note: depending on the supervisor, doctoral programs which are not listed above may also be taught in English.

Japan-Expert Program (Japanese-taught undergraduate degree program tailored to international students' needs)

Courses of study	Japanese proficiency requirement for application	Degree Level	Program Start
Agricultural Science	Japanese Language Proficiency Test (JLPT) N3 or above	B	Oct.
Healthcare	Japanese Language Proficiency Test (JLPT) N3 or above	B	Oct.
Art and Design	Japanese Language Proficiency Test (JLPT) N3 or above	B	Oct.
Japanese Language Teacher Training	Japanese Language Proficiency Test (JLPT) N2 or above	B	Oct.

School of Integrative and Global Majors

In December 2011, we established the School of Integrative and Global Majors (SIGMA) to administer the interdisciplinary degree programs of our undergraduate and graduate schools. SIGMA's role is to run the degree programs chosen for the Program for Leading Graduate Schools, and to ensure our own programs can function smoothly across a cross-section of disciplines. Through careful coordination under the watch of the director, who is also the vice president for education at the university, SIGMA keeps the programs functioning on a level equivalent to the academic departments.

Bachelor's Degree Programs

Bachelor's Program in Global Issues



The objectives of this Degree Program shall be to cultivate human resources who will acquire broad basic knowledge for gaining an overall perspective of global issues, who will enthusiastically seek on their own information and technology beyond their particular fields to resolve problems related to human beings and the environment, and who are capable of making decisions on optimal solutions from among many options. BPGI is a four-year degree program which is taught in English.

Website <http://bpgi.tsukuba.ac.jp/>

Graduate Degree Programs

Ph.D. Program in Human Biology



Spanning multiple academic fields and viewing humankind, the universe, and the earth as one living organism, this is the biological study of people as one species on this planet in the universe, as one species born in the temporal axes of biological evolution, and of the human body's homeostasis. This program is designed to: (1) Develop the ability to understand the basic concepts of human biology; (2) Instill specialist knowledge in the science of epigenetic biomolecules by focusing on DNA analysis, which cannot be grasped in terms of conventional central dogma, as well as technical skills needed to control such molecules; and (3) Nourish the strengths needed to recognize real-world problems, achieve breakthroughs, and complete viable solutions using the insights gained here.

Website <http://hbp.tsukuba.ac.jp/en/>

Ph.D. Program in Empowerment Informatics



This program was selected by the Ministry of Education, Culture, Sports, Science, and Technology as part of its Program for Leading Graduate Schools in 2013. This program establishes Empowerment Informatics as a new branch of informatics that supplements and extends human functions and enables technology to work in harmony with people, and seeks to produce graduates with the potential to create engineering systems that can improve the quality of human life through better safety, convenience, and empathy.

Website <http://www.emp.tsukuba.ac.jp/english/>

Master's/Doctoral Program in Life Science Innovation



This program offers learning opportunities within Tsukuba Science City and overseas, and promotes interaction between students and world-leading experts in four areas: Disease Mechanism, Drug Discovery, Food Innovation, and Environmental Management. Here, researchers from 16 member institutions of the Life Science Promotion Association of Tsukuba as well as faculty members of some of the world's leading institutions, including the Oxford Stem Cell Institute, Wageningen University & Research, the University of Montpellier, and the University of Bordeaux, are involved in academics and research aimed at finding practical solutions to real-world problems.

Website http://tlsi.tsukuba.ac.jp/index_e.html

Steadfast Support for Students



Tsukuba Action Project

The Tsukuba Action Project (T-ACT) helps students put their ideas into action. The T-ACT is a vehicle that enables students to establish or participate in attractive activities. To facilitate this, the T-ACT provides a means for students to seek advice from faculty members.



Support for Students with Disabilities /LGBT+ Students

Since the university's inception, we have always welcomed students with disabilities, and we actively offer a range of support. Today, we have more than a hundred students with visual, hearing and physical impairments, as well as chronic illness and developmental disabilities in our undergraduate and graduate courses. Moreover, we offer support for LGBT+ and other students in accordance with the university's basic principles and guidelines, for LGBT+.



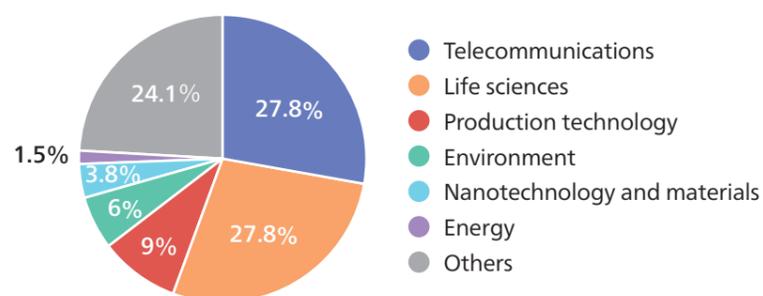
Global Village

Global Village has started its operation since April 2017. This is a shared-house type of student residence for a mixed group of Japanese and International Students, which is designed to create an environment where students can learn to become international minded by interacting with students from different countries.

Start-ups and Partnership Promotion



Primary business fields



A discussion between students and active entrepreneurs at a Creative Camp

Part of the university's mission to contribute to society involves opening up the fruits of our research to the community. The University of Tsukuba strives to grow venture start-ups and joint research projects as a means of transferring new technologies from the lab to the industrial front lines, thereby contributing to innovations that can spark progress throughout the economy and society as a whole.

The Headquarters for International Industry-University

Collaboration leads the way in starting new ventures and technology transfers. As a result, the University of Tsukuba is one of Japan's leading institutions for venture start-ups.

At Tsukuba Creative Camp, which comes in two versions—Basic and Advanced—business owners and entrepreneurs provide practical advice about starting up a business.

Research Organizations and Centers

Advanced Research Centers

Pursue research in their respective research fields with a goal of becoming international research hubs attracting outstanding talents from the world. Nationwide joint-use institutes also conduct human exchange, information exchange, and joint research on a national scale beyond the bounds of universities and serve as research hubs for researchers and other relevant persons across-the-country in related fields.

Center for Computational Sciences

From the universe to environmental and life sciences, researchers in various science disciplines and those in computer sciences work together in the pursuit of multidisciplinary research and the development and production of computers tailored to suit those purposes.



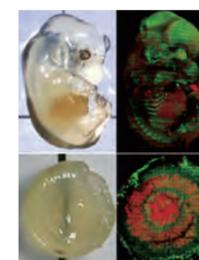
Shimoda Marine Research Center

The center works in rich natural environments including diverse ocean habitats to conduct research into marine biology and related fields. This is the leading marine research center in Japan due to its solid academic and research faculty and staffs. A solid academic and research faculty makes this one of Japan's foremost facilities in the field.



Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA)

The center explores dynamic survival strategies of living organisms and their responses to environmental changes by conducting interdisciplinary research on metabolic, immune, reproductive, and circulatory systems.



Plasma Research Center

Using the world's largest tandem mirror fusion experimental facility, the Plasma Research Center is devoted to state-of-the-art research into plasma fusion energy and fostering human talent through these efforts.



Tsukuba-Plant Innovation Research Center
Alliance for Research on the Mediterranean and North Africa (ARENA)
Center for Cybernetics Research
Center for Research in Isotopes and Environmental Dynamics (CRiED)
Center for Artificial Intelligence Research
Proton Medical Research Center
Mountain Science Center
Microbiology Research Center for Sustainability (MiCS)
Advanced Research Initiative for Human High Performance (ARIHHP)
Transborder Medical Research Center
Tomonaga Center for the History of the Universe
Tsukuba Research Center for Energy Materials Science

Research Support Centers

Develop research infrastructures and provide research support to engage in daily research sufficiently and without delay.
Research Facility Center for Science and Technology
Laboratory Animal Resource Center
Academic Computing & Communications Center (ACCC)

Education and Student Support Service Centers

Conduct education, etc. and specific tasks mainly for students and employees.
Center for Education of Global Communication (CEGLOC)
Sport and Physical Education Center
Admission Center
University Health Center

International Institute for Integrative Sleep Medicine (IIIS)

Institute for International Science Innovation

Innovation Medical Research Institute

Institute for Joint Usage & Research

Tsukuba Clinical Research & Development Organization (T-CReDO)

R&D Centers

Algae Biomass and Energy System R&D Center (ABES)
R&D Center for Precision Medicine
R&D Center for Strategic Frontiers Social Planning
R&D Center for Sport Innovation
R&D Center for Health Services

Athletic Department

Other institutions

Acupuncture and Physical Therapy Teacher Training School

International Ties

At the University of Tsukuba, we seek to raise the standard of our academics and research and to foster a global perspective in students through international academic exchanges. To that end, we have agreements with overseas institutions for the exchange of students and

faculty, credit transfers, and the acceptance of foreign educators and researchers. We also actively welcome students from all around the world.



Overseas Offices

The University of Tsukuba's wide-ranging efforts to promote international ties include the operation of overseas offices to pursue international academic and research opportunities. At present, there are 13 offices in 12 countries and regions, each of which is charged with

identifying talented candidates for study at the University of Tsukuba in Japan, supporting our students overseas, promoting and assisting with joint academic activities with partner institutions, and building our network of alumni.

Facts and Figures

North America

1.85%

International Students **45**
Countries **2**
Partner Universities **34**



Central and South America

3.22%

International Students **78**
Countries **15**
Partner Universities **18**



Africa

4.25%

International Students **103**
Countries **27**
Partner Universities **21**



Middle East

1.94%

International Students **47**
Countries **11**
Partner Universities **4**



Europe

11.01%

International Students **267**
Countries **37**
Partner Universities **132**



Asia

77.25%

International Students **1874**
Countries **20**
Partner Universities **150**



Oceania

0.49%

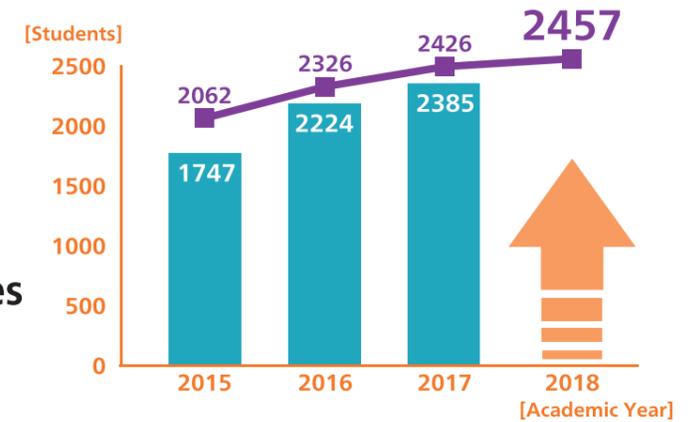
International Students **12**
Countries **5**
Partner Universities **13**



Overseas Offices

Students from Overseas

The University of Tsukuba has attracted students from more than 110 countries and regions with many degree programs offered only in English and hands-on Japanese language instruction tailored to each student's requirements.



Overseas Study Opportunities

In the 2017-18 academic year, students were sent to study at some 301 overseas institutions. Approximately 40 percent of those were undergraduate students and about 60 percent were graduate students, with the most common destination being the USA, followed by China and Taiwan.

Overseas Partner Universities



372
schools / **70**
countries & regions

As of Oct. 1, 2018

CiC partners
8 institutions
With universities
148 agreements
With departments
216 agreements

Scholarships for International Students

Scholarships for privately-financed international students are divided into two types according to the application method: The first type of scholarship requires application through the university, while the second type allows direct application to the scholarship foundation.

【Major Scholarships】

Application through University Recommendation	Japanese Government (Monbukagakusho) Scholarship (Domestic Recruitment)	Undergraduate: 119,000 yen per month Graduate: 146,000 – 147,000 yen per month
	Monbukagakusho Honors Scholarship for Privately Financed International Students	48,000 yen per month
	Tsukuba Scholarship	Undergraduate: 60,000 yen per month Graduate: 80,000 yen per month
	Private scholarships	30,000 – 180,000 yen per month
Individual Application (Direct Application)	Private scholarships	25,000 – 200,000 yen per month
Scholarship for Short-Term Exchange Students	Japan Student Services Organization (JASSO)	80,000 yen per month

A Transborder University

Top Global University Project

Under the Top Global University Project launched by the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT) in 2014, the University of Tsukuba was selected as one of the Type A (Top Type) universities that are conducting world-leading education and research. Through the project, we aim to create a global education and research environment by

transcending national, institutional, and all other barriers. To realize this, the "Campus-in-Campus" concept enhances greatly our university's founding philosophy of a "university open to all" and create a "Transborder University which opens up Japanese higher education and society to the world".

Campus-in-Campus (CiC)

The Campus-in-Campus (CiC) Initiative is a scheme of sharing campuses among the partner universities with a purpose of utilizing our respective research and educational resources without any national or institutional barriers. With the University of Tsukuba and its CiC partner universities sharing classes and teaching staff through the Course Jukebox System, as well as

sharing labs, research and educational units through joint appointments of researchers and staff, the CiC Initiative allows us to realize unfettered mobility of students, faculty and staff members in a global education and research environment.

CiC Partner Universities

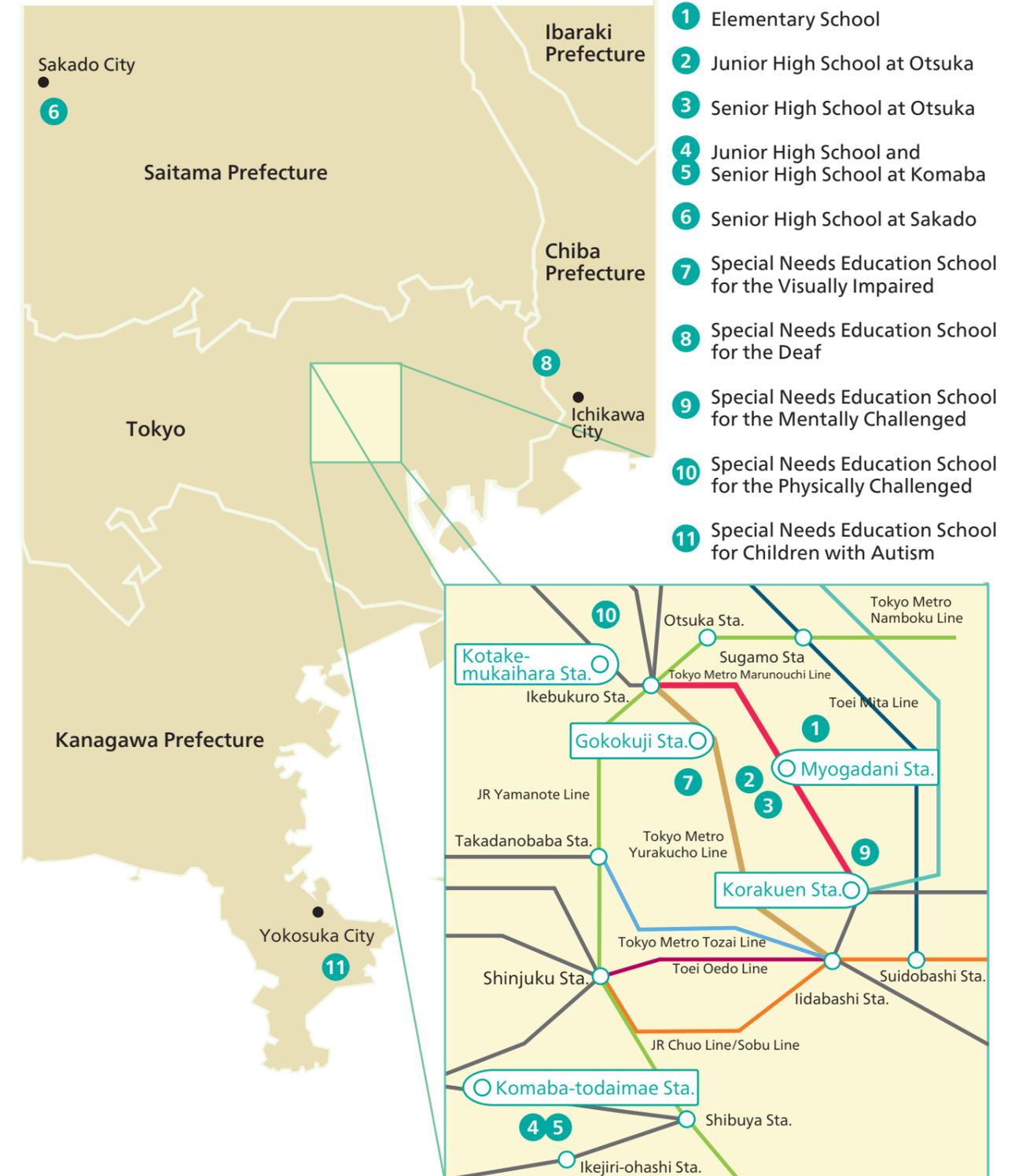
University of Bordeaux, France
National Taiwan University, Taiwan
University of São Paulo, Brazil
Universiti Teknologi Malaysia, Malaysia

University of California, Irvine (Research Partner), US
Utrecht University (Research Partner), Netherlands
Université Grenoble Alpes, France
Ohio State University, US

Laboratory Schools

The roles of laboratory schools are to develop internationally minded human talent capable of meeting society's needs. To that end, their tasks are to instill basic academic skills and provide pioneering education so as to establish fundamental models for lifelong learning through the implementation of a "three hub" concept.

Under this concept, these schools serve as (1) Pioneering education hubs, (2) teacher training hubs, and (3) international education hubs. In doing so, these schools, in cooperation with the university, lead the world in elementary school, middle school, and special-needs education.



University of Tsukuba Library



Basic Data (2017-18 Academic Year)
 No. of books: 2,681,796
 No. of visitors: 1,064,366
 No. of books lent: 294,616

The University of Tsukuba Library comprises a Central Library and four special libraries; it is the very foundation that upholds our wealth of academic information. Students can take advantage of reference services and lectures, as well as support services such as seminars, learning advice from graduate students, and volunteers on hand to show you around. The library's materials are

also used to hold classes and group learning sessions, and there are spaces for displaying art and research results. And with regular and special exhibitions of priceless materials in the library's collection, it is no wonder the library gets a million visitors a year.

Website <https://www.tulips.tsukuba.ac.jp/lib/en>

University of Tsukuba Hospital



Basic Data (2017-18 Academic Year)
 No. of departments: 38 groups
 No. of consultations (average/day): 1,771
 No. of beds: 800
 Outpatients: 1,771
 Inpatients: 721

The University of Tsukuba Hospital is the only facility in Ibaraki Prefecture operating as an official "Special Functioning Hospital," and provides state-of-the-art medical care. It is also a teaching hospital, whose excellence was underscored by a 2017 survey of residency matching that found that 67 people wished to study at the University of Tsukuba Hospital, making it the fifth most popular training destination among national university hospitals, behind only those of Tokyo Medical

and Dental University, the University of Tokyo, Kyoto University, and Kobe University. The hospital is also trying to alleviate the shortage of doctors in our home prefecture, Ibaraki, by coordinating with governments, the Japan Medical Association, Japan Agricultural Cooperatives, and the business community to implement a plan to revitalize medical services in the region.

Website <http://www.hosp.tsukuba.ac.jp/en/index.html>

Features of the University of Tsukuba

Our close historical ties with the Olympic and Paralympic Games

Kano JIGORO (1860-1938), the widely revered founder of judo, served for 23 years as principal of Tokyo Higher Normal School, the forerunner to today's University of Tsukuba. He was Asia's first representative on the International Olympic Committee, and helped develop the Olympic

Movement in Japan. When Japan sent its first official team to an Olympic games—the Stockholm Games in 1912—Kano led the delegation of two athletes. One of them, marathon runner Shizo KANAKURI, was a student at Tokyo Higher Normal School.

Olympic medals won by University of Tsukuba people*



Takanori NAGASE (judo)
 Photo: YUTAKA/AFRO SPORT (Rio De Janeiro Olympics)

Paralympic medals won by University of Tsukuba people*



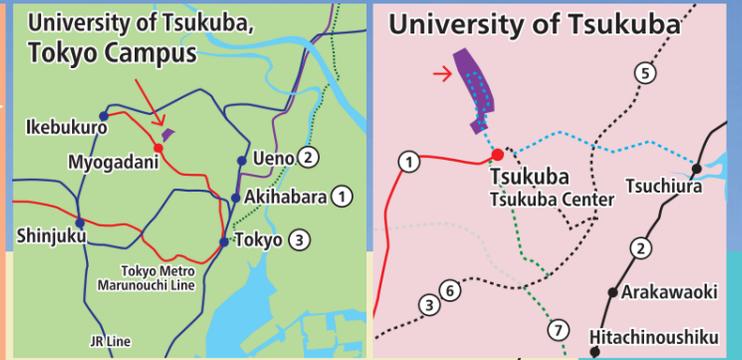
Keiichi KIMURA (swimming) and coach Masato TERANISHI (teacher) of the University of Tsukuba Special Needs Education School for the Visually Impaired
 Photo: Nikkan Sports /AFLO (Rio De Janeiro Paralympics)

*Includes those won by students, graduates, and faculty of the current University of Tsukuba, as well as those of UoT's forerunners the Tokyo Higher Normal School and the Tokyo University of Education, and laboratory schools.

As the Hub of Tsukuba Science City

Tsukuba Science City is the largest leading-edge R&D center in Japan. The city boasts of 29 national research and educational institutions including the University of Tsukuba, as well as many private research institutions, and over 20,000 researchers are engaged in various research activities. The University of Tsukuba plays a central role in the science city. The science city has been designated

“Tsukuba International Strategic Zone” since 2011 through a joint proposal by our university, the city of Tsukuba and Ibaraki Prefecture. Making maximum use of the accumulated knowledge in Tsukuba and special measures for regulations and systems in the zone, we promote to produce ceaseless innovation in cooperation with industry, university and government.



The University of Tsukuba actively participates in the following projects of the Special Zone.

- Project 1: Development and implementation of boron neutron capture therapy
- Project 2: Living with personal care robots
- Project 3: Practical use of algal biomass energy
- Project 4: TIA Creating a global innovation platform
- Project 5: Development of innovative pharmaceuticals and medical technologies using biomedical resources in Tsukuba
- Project 6: Domestic production of medical radioisotope (technetium-99m) in Japan
- Project 7: Creation of the global hub of innovative medical robots and medical devices
- Project 8: Practical development of a recycling system for strategic urban mines
- Project 9: Practical development of a production system for useful materials for human promotion utilizing the function of plants



IMAGINE THE FUTURE.

imagine the future

our earth

our environment

our society

without imagination

there can be no creation

for the future of this, our planet

we cannot fail

create the future

for one and all

a bright, sustainable future

rise up to the challenge

open the door to the future



筑波大学
University of Tsukuba

Outline of the University

Academic Year 2018 - 2019

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