School of Science
The University of Tokyo
After graduating from the School of Science and working at several other universities, I returned here as a faculty member about 20 years ago. I am honored and humbled to have been given the opportunity to head the School of Science, the oldest academic unit in this field in Japan. Our School has produced numerous outstanding researchers and continues to do so. I will devote my best efforts to the further development of the School, building upon the efforts of my illustrious predecessors.

Science studies the nature of the entire universe, and is one of the greatest cultural achievements of humankind. It not only informs us of the profundity of nature, but also gives us a glimpse into people’s long and tireless efforts towards discovery. Natural science has made huge strides since the 19th century, and the School of Science, which was established in 1877, has made many fundamental contributions. One recent example is the contribution to particle physics - the discovery of neutrino oscillations - by Prof. Takaaki Kajita, for which he was awarded the Nobel Prize. However, many mysteries of nature remain unsolved, and our School’s researchers and students are doing their best to further advance the frontiers of scientific knowledge. These efforts are the core mission of our School, and I will do everything I can to support this work.

We must be aware that society’s trust in science and technology has wavered as the result of events such as the nuclear plant accident in the aftermath of the Great East Japan Earthquake on March 11, 2011. Instances of research misconduct such as the “STAP cell” scandal have shaken society’s belief that “the value of science rests on its sincere pursuit of truth,” which is the raison d’être of science. We, as a specialist group of scientists, have an obligation to properly respond to these doubts. From time to time there are moments in our continuing endeavors to learn nature’s principles when nature allows us to witness a secret so far unknown to anyone else. If we are motivated by the pure pleasure of such Eureka moments, things like falsification of data cannot happen. Nevertheless, we must be sensitive and responsive in our relations with society, and should unhesitatingly make our specialized knowledge and educational facilities available. Only through such proactive collaboration with society and sincerity in our research can we hope to recover society’s trust.

Science is global, and cooperation with researchers overseas and fostering the internationalization of our students and faculty is indispensable. The School of Science has collaborative research partnerships throughout the world. The University of Tokyo Research Internship Program (UTRIP) invites talented undergraduate students from abroad, while we send our undergraduate students to overseas universities under the Study and Visit Abroad Program (SVAP). In addition, we have launched the Global Science Course, which is a new undergraduate transfer program with the aim of creating a global hub of education in the fundamental sciences to groom young talents world-wide. We will continue our efforts working with researchers all over the world to engage in scientific research and education as well as collaborating with society for the peaceful development of Japan and the world. We hope that you will join us in these efforts.

Hiroo Fukuda, Dean
April 2016
Features of the School of Science, the University of Tokyo

1. The oldest and the most prestigious university in Japan

The origin of the Faculty of Science was the Institute of Western Learning of the Tokugawa shogunate. The Tokyo-Kaisei School and the Tokyo-Igakko (Tokyo Medical School) were merged to form the University of Tokyo in 1877. The original College of Science was composed of eight departments: Mathematics, Physics, Chemistry (theoretical chemistry, applied chemistry), Biology (zoology, botany), Astrology, Engineering (mechanical engineering, civil engineering), Geology, and Metallurgy.

2. Distinguished alumni

Our graduates have gone on to make groundbreaking research.

- Kikunae Ikeda
  Discovered the fifth taste element "UMAMI"

- Kunihiko Kodaira
  Fields Medal, 1954

- Leo Esaki
  Nobel Prize, 1973

- Masatoshi Koshiba
  Nobel Prize, 2002

- Yoichiro Nambu
  Nobel Prize, 2008

- Takaaki Kajita
  Nobel Prize, 2015

3. Academic Excellence

The School of Science continues to be a front-runner in global research and education, producing both cutting-edge scientific discoveries and one of the highest numbers of Ph.D. graduates in Japan.

4. Wealth of facilities

- Super-Kamiokande
- Atacama Observatory (TAO)
- Kiso Observatory

5. Blessed environment for study and research

Located at the heart of one of the busiest cities in the world, the main Hongo Campus with its rich history and natural beauty provides a serene haven for inspirations and discoveries.
Access to Hongo Campus
Hongo-sanchome Sta. : 8-minute walk
Yushima Sta. : 8-minute walk
Nezu Sta. : 8-minute walk
Todaimae Sta. : 1-minute walk
Kasugae Sta. : 10-minute walk

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The University of Tokyo Faculties and Graduate Schools

Undergraduate Faculties

- Law
- Medicine
- Engineering
- Letters
- Science
- Agriculture
- Economics
- Arts and Sciences
- Education
- Pharmaceutical Sciences

Graduate Schools

- Humanities and Sociology
- Education
- Law and Politics
- Economics
- Arts and Sciences
- Science
- Engineering
- Agricultural and Life Sciences
- Medicine
- Pharmaceutical Sciences
- Mathematical Sciences
- Frontier Sciences
- Information Science and Technology
- Interdisciplinary Information Studies
- Public Policy

University-wide Centers

- University Museum
- Cryogenic Research Center
- Radioisotope Center
- Environmental Science Center
- Research into Artifacts, Center for Engineering (RACE)
- Biotechnology Research Center
- Asian Natural Environmental Science Center
- Center for Research and Development of Higher Education
- Center for Spatial Information Science
- Information Technology Center
- International Center for Elementary Particle Physics (ICEPP)
- VLSI Design and Education Center (VDEC)
- Policy Alternatives Research Institute (PARI)

Affiliated Institutes

- Institute of Medical Science
- Earthquake Research Institute (ERI)
- Institute for Advanced Studies on Asia
- Institute of Social Science
- Institute of Industrial Science
- Historiographical Institute

The University of Tokyo Institutes for Advanced Study (UTIAS)

- Institute of Molecular and Cellular Biosciences
- Institute for Cosmic Ray Research (ICRR)
- Institute for Solid State Physics
- Atmosphere and Ocean Research Institute (AORI)
- Research Center for Advanced Science and Technology

Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU)
Integrated Research System for Sustainability Science (IR3S)
10 Departments (Undergraduate)

- Department of Physics
- Department of Astronomy
- Department of Earth and Planetary Physics
- Department of Earth and Planetary Environmental Science
- Department of Chemistry
- Department of Biophysics and Biochemistry
- Department of Biological Sciences
- Department of Bioinformatics and Systems Biology

- Department of Mathematics (Graduate School of Mathematical Sciences)
- Department of Information Science (Graduate School of Information Science and Technology)

Akamon (Red Gate) in the Meiji Era*7	Akamon today

*7 © General Library, The University of Tokyo : “Imperial University of Tokyo” (K. Ogawa 1904)
*8 © General Library, The University of Tokyo : “Imperial University of Tokyo” (K. Ogawa 1900)
Graduate School of Science

5 Departments

Department of Physics
Department of Astronomy
Department of Earth and Planetary Science
Department of Chemistry
Department of Biological Sciences

Affiliated Facilities

Koishikawa Botanical Garden / Nikko Botanical Garden
The Misaki Marine Biological Station (MMBS)
Research Center for Spectrochemistry (RCS)
Geochemical Research Center (GRC)
Institute of Astronomy (IoA)
Kiso Observatory / Atacama Observatory
Center for Nuclear Study (CNS)
Research Center for the Early Universe (RESCEU)
Center for Ultrafast Intense Laser Science (CUILS)
Molecular Genetics Research Laboratory (MGRL)
Institute for Photon Science and Technology (IPST)

Tokyo Astronomical Observatory in the Meiji Era*9

*9 © General Library, The University of Tokyo: “Imperial University of Tokyo” (K. Ogawa 1900)
*10 © The University of Tokyo Atacama Observatory (TAO) Project
*11 © The University of Tokyo Atacama Observatory (TAO) Project
Global Science Course

Global Science Course (GSC) is an undergraduate transfer program in the School of Science. It was established with the aim of creating a global hub of education in the Fundamental Sciences to develop young talents world-wide.

Selected students are accepted into the 3rd year of undergraduate studies. Upon successful completion of 2 years in GSC, they will be awarded a Bachelor of Science degree from UTokyo.

Curriculum: GSC offers a variety of interdisciplinary research areas in the Fundamental Sciences. Traditional core areas of science will be integrated with advanced concepts to build a solid foundation of knowledge and to allow students to embrace new challenging areas.

Lectures: Classes and lab sessions are conducted by world-leading professors in the School of Science whose work is at the forefront of scientific research. In addition, renowned professors from around the world are invited to give special seminars.

Future Prospects: During their 2 years with us, students are exposed to various fields of science to further expand their knowledge and develop experimental skills.

- Taught entirely in English
- Full scholarship (JPY 150,000/month)
- Supported accommodation
- Strong academic assistance: TAs, student tutors

Global Science Course [http://www.s.u-tokyo.ac.jp/GSC/](http://www.s.u-tokyo.ac.jp/GSC/)

(As for now, GSC is only available in the Dept. of Chemistry)
Global Science Graduate Course

The Global Science Graduate Course (GSGC) is a new program designed to welcome excellent graduates from universities all over the world. It provides them with a rich environment that fosters world-class science professionals. GSGC standardizes a five-year integrated education scheme in which students attend both the Master’s course and the Doctoral course in sequence. The program allows its students to obtain their degrees using English only, giving financial support in the form of a scholarship, and assists them under the framework of its industry-government-academia cooperation when they seek employment after obtaining their degrees.

Admission:
- Online admission application
- No written examination

Academic Life:
- All lectures and research conducted in English
- An integrated education scheme catered for students wishing to obtain both Master’s and Doctoral degrees

The GSGC Scholarship:
- JPY 180,000/month
- Covering the whole period of post-graduate studies (2 years of Master’s course + 3 years of Doctoral course)

Application Requirements for the GSGC
http://www.s.u-tokyo.ac.jp/en/GSGC/instructions.html
The University of Tokyo Research Internship Program

UTRIP stands for the University of Tokyo Research Internship Program, and was launched in 2010 by the Graduate School of Science as part of its globalization campaign. This program invites undergraduate students from all around the world with keen interests in pursuing an M.S. or Ph.D. degree in the future, to experience the forefront of research at a world-leading laboratory.

Eligibility:
- Students who will be enrolled in Bachelor’s degree programs in universities outside of Japan during and after the summer of participation
- Majors of natural science fields or any related fields

Program Features:
- Around 20 participants
- Six-week summer internship
- Choice of two program periods
- Academic & cultural activities
- Gateway to pursuing an advanced degree at UTokyo*

Hosting Laboratories in Five Departments:
- Physics
- Astronomy
- Chemistry
- Earth & Planetary Science
- Biological Sciences

Full Financial Support:
- Free accommodation provided
- Stipend (JPY 60,000)
- Round-trip airfare support (up to JPY 100,000)

* Highly evaluated UTRIP participants will later be given priority in the selection for the Graduate School of Science Scholarship for International Students if and when they apply for it to enter the Graduate School of Science, the University of Tokyo

Details and Past UTRIP Summaries
https://www.s.u-tokyo.ac.jp/en/utrip/
Study and Visit Abroad Program

Each year the School of Science at the University of Tokyo sends out a select number of its undergraduate students to do a funded internship or attend a short-term lecture program of their own choosing. Students are encouraged to build their own study-abroad experience through collaborating with a professor at an academic institution abroad.

Eligibility:
3rd and 4th year undergraduate students at the Faculty of Science

Period of Stay:
A two-week to three-month long period between May and the following March

Financial Support:
- Funding for housing, flight fees, course fees, and living expenses
- Total payment will not exceed JPY 650,000

Two Program Types

Type A (Given Priority at Selection)
The student directly contacts a faculty member or a researcher at a university or research institution outside of Japan, asking to be accepted for an internship. They plan their own internship through discussion with the hosting researcher.

Type B
The student applies for an existing internship program or a summer/winter lecture program at an institution outside of Japan.

SVAP on Facebook
https://www.facebook.com/UTokyo.SVAP/