Facts and Figures

Organization (as of May 1, 2017)

- Schools: 11
- Graduate Schools: 16
- Research Institutes, Centers, and Facilities: 25
- University Libraries: 4
- University Hospitals: 2
- Overseas Centers: 4

Faculty and Staff (as of May 1, 2017)

- Academic Staff: 3,225 (478 female)
- Researchers, Administrative Staff, Medical Staff, etc.: 3,291 (2,100 female)

Students (as of May 1, 2017)

- Undergraduate Students: 15,358
- Graduate Students: 7,930

International Exchange

- International Researchers (Inbound): 4,037 (April 1, 2016 - March 31, 2017)
- International Students (Inbound): 2,273 (as of May 1, 2017)
- Students Studying Abroad (Outbound): 1,629 (April 1, 2016 - March 31, 2017)

Budget FY2017, in millions of yen

- Revenue: 139,905
- Expenditure: 139,905

Academic Exchange Agreements (as of October 1, 2017)

- Inter-University Academic Exchange Agreements: 121
- Inter-Faculty Academic Exchange Agreements: 589
**Prizes and Awards**

**Nobel Prize**
- Hideki Yukawa
  - 1949, Physics
- Hideaki Hatanaka
  - 1982

**Lasker Award**
- Shizuo Akira
  - 2011
- Shimon Sakaguchi
  - 2015

**Gairdner International Award**
- Hideaki Hatanaka
  - 2011
- Shizuo Akira
  - 2017

**Wolf Prize**
- Osamu Hayashida
  - 1986, Medicine

**Crafoord Prize**
- Miki Sato
  - 2002-2003, Mathematics
- Tadamitsu Kishimoto
  - 2009
- Shimon Sakaguchi
  - 2017

**Claude E. Shannon Award**
- Tueda Katsura
  - 1999

**Japan Prize**
- Tadamitsu Kishimoto
  - 2011

**Kyoto Prize**
- Takashi Miura
  - 2017

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**New Institutions Established in 2018**

**Co-Creation Bureau**

**Promoting design, coordination, management, and public relations**

The Co-Creation Bureau operates under the direct supervision of the university President, and acts as an intermediary to increase the momentum and scope of Osaka University’s fundamental research, education, social contributions, and globalization, as it looks within and beyond the walls of our institution—infusing the entire university with the concept of “co-creation.”

“A key concept of Osaka University’s ideal model, meaning that the university collaborates with society, industry, and other stakeholders to identify, address, and solve various kinds of social issues through research and human resources development. We believe that co-creation is an important approach in creating new knowledge and therefore leads to innovation.”

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**Social Solution Initiatives**

Our university “think tank”

Osaka University was the first institution in Japan to combine the sciences and humanities into our undergraduate and graduate schools of “Human Sciences,” giving us the unique experience to develop a think tank which puts into practice the results of research from interdisciplinary fields in the humanities and sciences.

Researchers in the humanities and social sciences will serve as intermediaries for society’s stakeholders and interested parties as well as researchers in the natural sciences to produce co-created knowledge that integrates academic and real-world applications to discover and solve societal issues.
I will continue to develop the brain sensor in the next five years to be manufactured cheaply and simply so that it can be used by anyone. This sensor will be able to be used in the home to manage brain health, with the possibility to even detect the onset of dementia.

I firmly believe that all technology can contribute beneficially to society. When I was a high school student, I set my sights on physical engineering. I was completely captivated by the novel value created by observing the fundamental laws of nature (science) and the benefits brought to society through the integration of technology (engineering). When I noticed that the ability to confirm a scientific hypothesis in this field is less than one percent, I felt I needed to be a part of this field. I thrive on success in failure, and I was able to really feel that each failure brought me so close to success.

Osaka University has given me the environment needed to pursue my passion. I want to continue chasing my passions here, the “place for innovation,” without having to set my own limits, along with the cooperation of diverse individuals and the faculty of Medicine, and with the support of industry-university co-creation.
According to the World Health Organization, an estimated 429,000 people in 2015 died due to complications from malaria, and even after medical treatment, malarial parasites’ remains stay in the tissues causing several unforeseen problems. Malaria is a very old disease, but there are still too many unknowns about it. That is why I think there is meaning in my research. Whatever we find, it will be beneficial for humans. I think “big scientific findings usually come from very simple questions.” Once you find the answer, it becomes big science. It is my dream to find such questions and pioneer new discovery.

I am originally from Turkey, and have worked at medical and research centers there, America, and Japan, but what has always been important to me is whether or not I can continue my own research. At Osaka University, I have had this freedom. I would like to continue to develop vaccines and/or drugs against malaria to reduce the number of people suffering from malaria, especially the children, together with my lab members from various countries such as Malaysia, Australia, Turkey, and Japan.
As a researcher, everyone wants to be the first to discover something. With that in mind, I entered Osaka University’s School of Engineering to study chemistry, physics, and biology equally. There, I met professors of applied chemistry, including photochemistry, that spoke with such a passion for their research. I was able to discover a field that connected everything I wanted to study. I feel the passion of professors in everything I do even today. I think the strength of Osaka University lies in the experimental devices that are available here. As a researcher, it has been extremely helpful to be able to use that equipment whenever I feel the need to do an experiment, without going through a lot of red tape. Additionally, there is a system that allows us to acquire research funds, and a research environment that allows us to devote our undivided attention to research we want to do. One thing that is appealing about my field of study is that it is easy to apply research results to better society. In 20 or 30 years, I would hope my research can bring photonics applications to medical fields as well as solve the energy crisis.

I am researching how science and technology supports and changes social interactions and our understanding of the world. I am particularly interested in how science and technology transforms society by creating new connections across different regions and cultures. Because my research field is a very new, the research environment is very unrestricted, allowing me to pursue groundbreaking ideas. This is the kind of research environment that I find very exciting, as I believe that enjoying your research is the most important. Due to the wonderful relationship between faculty members and flawless execution of staff support, Osaka University is a place where you can completely immerse yourself in your research. Thanks to the overwhelming majority of researchers from overseas at my lab, visitors from abroad have been increasing each year, making me hope that in the future, Osaka University may use my research as a base for an Asian Center for learning, creating a space where students can pursue PhD’s in this field, as well as a space where many researchers can gather and study.
Research Outcomes

Rankings

QS World University Rankings 2018
63 (4)*

Reuters Top 100: The World’s Most Innovative Universities 2016
21 (2)*

Nature Index Innovation 2017
31 (1)*

* Rank among universities in Japan.

Highly Cited Researchers by Clarivate Analytics
*The Most Influential Scientific Minds* for 2017

1 Plant & Animal Sciences
2 Chemistry
5 Immunology

Osaka University had the most cited researchers among universities in Japan for this publication.

The Number of Invention Disclosures

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The Number of Patents held by Osaka University

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License Agreements and Income
(including licensing, assignment and MTA)

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Researchers’ Stories

Kensuke KOBAYASHI
Osaka University Distinguished Professor
Professor, Graduate School of Science

Kensuke KOBAYASHI is a professor of physics who has been awarded the Yukawa-Thomas Memorial Prize (2011), Kusano-Kaasa Memorial Prize (2012), JSPS Prize (2016), and the Japan Academy Medal Prize (2016) for his work regarding fluctuations in quantum systems. His current research, which is aiming towards world-first breakthroughs in research, is focused on the development of new technologies, and how to control their different types of quantum systems. With these kinds of developments, the research we put into our field has a great potential to develop new technology.

In the first half of the twentieth century, it has become possible to establish the origins of atoms, molecules, and light using quantum mechanics. Within this field, I have set my sights on fluctuations. Fluctuations are also called “noise,” and are difficult to measure, though over the past ten years, we have independently-developed the technology to perform precise measurements. Now, we are able to detect fluctuations that would be easily missed, discovering new physical phenomena. Furthermore, it also becomes possible to understand the new phenomena, and to control their different types of quantum systems. With these kinds of developments, the research we put into our field has a great potential to develop new technology.

You need courage to start things nobody else has, or attempt things that are already possible to do by others. However, research that has won Nobel Prizes has had these kinds of beginnings. For me, it is better to be known as the first to climb the mountain nobody else did, rather than one of many who had set their sights on the same mountain. I would like to always be ready to take the first step.
Industry-University Co-Creation

Under the concept of "Industry on Campus," Osaka University is a pioneer in designing joint research with researchers from the business world.

45
Endowed Chairs
(as of May 1, 2017)
Endowed Chairs are education and research units run by donations from companies.

50
Joint Research Chairs
(as of May 1, 2017)
Joint Research Chairs are research units sponsored by companies who are fully dedicated to joint research on campus.

12
Research Alliance Laboratories
(as of May 1, 2017)
Research Alliance Laboratories are research bases for various industry-university collaborations by attracting company-based R&D organizations to Osaka University.

External Funding (Including commissioned research, donations for research, joint research funding)

Solid Foundation for Education and Research

Organization
Students’ Voices

Kanami TANIGAWA
2nd Year Master’s
Graduate School of Medicine
(Japan)

Teachers positively cooperate in the “omotetsu” plans that students make. The nature of this relationship has a great appeal to Osaka University students who like “omotetsu” things.

In the future, I want to bring the things I have learned in Osaka University’s nursing and public health programs to help improve the health of the region. At the same time, I also want to be a person who can be dispatched abroad. This is Osaka University’s motto: “Live locally, grow globally,” a goal I have set my sights on since entering the university.

Students’ Voices

Takeyoshi NAKAMURA
1st Year Doctor’s
Graduate School of Language and Culture
(Japan)

With 25 majors in the School of Foreign Studies, the cutting-edge, diverse foreign language education drew me to Osaka University. The programs provide a wealth of learning by breaking the framework of undergraduate/graduate courses, and nationality. In that framework, I was delighted to be exposed to ideas that I could not possibly think of on my own.

You too can be welcomed by our official mascot, Dr. Wani, and the delicious Tenjin-nabé, a Japanese-style Chinese dish, in the cafeteria.
Students' Voices

Fitrat UMIROV
2nd Year Master’s
Graduate School of Law and Politics
(Uzbekistan)

Osaka University offers more possibilities than just research. My research is in constitutional law and the sociology of law, and I am pleased with the large selection of studies that reflect my interests. In particular, I really love the learning Commons in the library. You can use the print and digital mediums there freely, and there is an active learning space where students and professors can study and communicate. I am also very thankful for the support systems in place for study abroad students, starting from helping us look for housing.

Sunyanan CHOOCOTKAEW
1st Year Doctor’s
Graduate School of Information Science and Technology
(Thailand)

As an international student, I cannot say enough about the activities for developing friendships with students of different nationalities and cultures, and the laboratory acceptance systems. Above all else, the majority of our day in a lab is not only about advanced research, but it is also supported by our lab mates, who lend me a hand when I have difficulty.

After graduation, I hope the technology I developed can close the gap between people of different social levels. I think I am getting closer to this dream.

Alumni's Voices

Kouji TOYOSHIMA
Chief Engineer & General Manager
EV Business Planning Dept.
Toyota Motor Corporation

I joined Osaka University because I felt that it could help me realize my dream of working with extraordinary vehicles to better society. When I was a student, I spent long nights going over the fine details of vibration and naval engineering, and developed an interest in bringing this technology to the automobile industry through long drives with friends in my downtime. My passion for engineering and my love for cars never waned during my time at Osaka University.

This naturally transitioned into a position with Toyota. With them, I have been focusing on developing cars through the eyes of the customer and using my personal experiences to better our designs. When I was younger, I broke my tailbone, which made sitting for long periods of time difficult. This also helped me to develop new contoured seats to actualize a new level of comfort for the customer.

Since late 2016, I have been involved with developing and popularizing EV cars—pursuing my second dream of creating a more environmentally-friendly car. Fulfilling your dreams depends on the initial work you put in. I want students at Osaka University to realize that there is no one dream, that you are always pursuing the next.
Alumni’s Voices

Yuka OBAYASHI
President, ablabo.

Though I knew nothing of making oil, I was taken in by a 92-year-old oil artisan and proudly made my mission in life to have many people come to know how delicious oil can be, and build a company to connect that thought to my future.

At my company, we deal in canola and sunflower oil. Depending on the flowers used, the oil can develop different flavors, so it is necessary to consult with farmers, adjust extracting machines depending on seed types, and revise recipes. It takes a great deal of labor, and for me, for the farmers, customers, oil artisans, and business partners, frankly, for them, this is a job worth doing.

Starting a business was something I became interested in my university days. Friends from those days and I often spoke at length about our dreams for the future. They encouraged me to start a business when I expressed an interest. Friends that encouraged me no matter what became my incentive. Good oils delicious. Using it makes you feel good. Although truly delicious oil is not so widespread, I will continue my mission to spread happiness to people through oil.
Non-Degree Programs
Programs for Short-Term Exchange Students
There is a wide variety of one-year or less short-term programs prepared for international students from universities abroad that have student exchange agreements with Osaka University.

Non-Regular Students
Osaka University accepts students at graduate schools / institutes as research students or credited auditors, etc. For further information, please contact the relevant graduate school / institute.

Support for International Students and Researchers

Center for International Education and Exchange
Provides Japanese language programs, exchange activities, counseling, advice, etc.

Support Office for International Students and Researchers
Provides information about Visa procedures and accommodation.
Global Academic Network (as of October 1, 2017)

- Osaka University Overseas Centers
- Overseas Departmental Centers

**RENEKI**
Japan-UK Research and Education Network for Knowledge Economy Initiatives
(12 universities)

**University of California/University of California Education Abroad Program Osaka Office**
Enhance student exchange between UC and its partner universities in western Japan

**AEARU**
The Association of East Asian Research Universities
(18 universities)

**North American Center for Academic Initiatives**

**European Center for Academic Initiatives**

**HeKKSaGOn**
German-Japanese University Network
(6 universities)

**ASEAN Center for Academic Initiatives**

**East Asian Center for Academic Initiatives**

**APRU**
Association of Pacific Rim Universities
(49 universities)
Inter-University Academic Exchange Agreements (as of October 1, 2017)

**Europe**
- Austria
  - University of Vienna
- Belgium
  - Interuniversitaire Micro-Electronica Centrum vnaw (IMEC)
  - Université catholique de Louvain
- Denmark
  - University of Copenhagen
- Finland
  - Åbo Akademi University
  - University of Helsinki
- France
  - Aix-Marseille University
  - Communauté Université Granoble Alpes
  - École Nationale Supérieure de Chimie de Paris
  - École Polytechnique
  - The National Center for Scientific Research
  - Pierre & Marie Curie University
  - University of Bordeaux
  - University of Strasbourg
  - Université Paris-Saclay
- Germany
  - Bielefeld University
  - Friedrich-Alexander-Universität Erlangen-Nürnberg
  - Goethe University Frankfurt
  - Heidelberg University
  - Karlsruhe Institute of Technology
  - Ludwig Maximilians-Universität München
- Hungary
  - Eötvös Loránd University (ELTE)
- The Netherlands
  - Delft University of Technology
  - University of Groningen
- Russia
  - Russian Academy of Sciences
  - Saint Petersburg University
- Spain
  - Universidad Autónoma de Madrid
  - University of Valladolid
- Sweden
  - Karolinska Institutet
  - KTH Royal Institute of Technology
  - University of Gothenburg
- Switzerland
  - École Polytechnique Fédérale de Lausanne (EPFL)
  - Eidgenössische Technische Hochschule Zürich
- UK
  - King’s College London
  - University College London
  - University of Leeds
  - The University of Nottingham
  - The University of Sheffield

**Middle East**
- Qatar
  - Qatar University

**Qatar**
- King Abdullah University

**Saudi Arabia**

**Asia**
- Australia
  - Australian National University
  - Monash University
  - The University of Adelaide
  - The University of Queensland
- Brunei Darussalam
  - Universiti Brunei Darussalam
- China
  - Beijing Normal University
  - The Chinese University of Hong Kong
  - Fudan University
  - Nanjing University
  - Peking University
  - Shanghai Jiao Tong University
  - Tsinghua University
- Singapore
  - National University of Singapore

**India**
- Indian Institute of Technology, Hyderabad
- Indonesia
  - Airlangga University
  - Bandung Institute of Technology (ITB)
  - Universitas Gadjah Mada
  - Universitas Indonesia
- Korea
  - Chungbuk National University
  - Chonnam National University
  - Chung Ang University
  - Chungnam National University
  - Gyeongsang National University
  - Hanyang University
  - Pusan National University
  - Seoul National University
  - Yonsei University
- Mongolia
  - National University of Mongolia
- Myanmar
  - University of Yangon
- The Philippines
  - Ateneo de Manila University
  - De La Salle University
  - National University of Singapore

**North America**
- Canada
  - McMaster University
  - Ryerson University
  - The University of British Columbia
  - University of Toronto
- USA
  - Cornell University
  - Lawrence Livermore National Laboratory
- Taiwan
  - National Cheng Kung University
  - National Chiao Tung University
  - National Taiwan University
  - National Taichung University
- Thailand
  - Chiang Mai University
  - Chulalongkorn University
  - Department of Medical Sciences, Ministry of Public Health
  - Kasetsart University
  - King Mongkut’s University of Technology Thonburi
  - Mahidol University
  - Thammasat University
- Vietnam
  - Can Tho University
  - Vietnam Academy of Science and Technology
  - Vietnam National University
  - Vietnam National University-Hanoi
- Peru
  - Pontifical Catholic University of Peru

**Central and South America**
- Brazil
  - University of Campinas
  - University of São Paulo
- Mexico
  - National Autonomous University of Mexico (UNAM)
- Peru
  - Pontifical Catholic University of Peru
# Home Institutions of Researchers in International Joint Labs (as of April 1, 2017)

International Joint Labs bring researchers from overseas together for collaborative research at Oslo University. You can check the research results of International Joint Labs at: [www.oslo-univ.ac.jp/jl](http://www.oslo-univ.ac.jp/jl)

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Osaka University’s roots can be traced to Kaitokudo and Tekijuku, two academies that delivered front-line scholarship during the Edo period (1603-1867). This tradition is inherent in Osaka University today which continues to achieve cutting-edge research results worthy of international recognition and provide society with distinguished researchers and professionals.

1724 Kaitokudo
Kaitokudo was an academy founded in 1724 by Osaka merchants. It contributed to the development of education and business morality for the remaining 140 years of the Edo period, playing an important role in education in Osaka as a civic and liberal arts college.

1838 Tekijuku
Tekijuku was a private academy in Osaka founded in 1838 by OGASA Koan, a physician and renowned educator. Young minds from all over Japan gathered there to learn, and many of them later played leading roles in the modernization of Japan during the Meiji period.

1931 Osaka Imperial University
Osaka Imperial University was founded in 1931 with passionate support from the local government, the Kansai business community, and the citizens of Osaka as a “citizen-led imperial university.”

1949 Osaka University

2007 Integration of Osaka University and Osaka University of Foreign Studies
Established originally as Osaka School of Foreign Languages in 1921, it was founded with the money donated to the government by an Osaka-based businesswoman who was passionate about establishing a “school capable of nurturing internationally-minded people in Osaka.” Thus, Osaka School of Foreign Studies shares a similar background to that of Osaka University.
Access

Spacious Campuses Located in Northern Osaka

Campus Locations and Transportation
Be the member of Osaka University.

Openness
We defined it as individuals and organizations sharing a common foundation, competing and building together, overcoming internal and external obstacles, and collaborating to create new knowledge and lasting impact for society.

Shojiro NISHIO
President

Open Education
Train students to search for the truth and explore knowledge beyond university campuses in the larger society. Achieve Open Education by integrating resources in the university with those in civil society, government, and industry to discover new knowledge relevant and meaningful to society.

Open Research
Support Open Research by respecting the freedom and encouraging the passion of individual researchers. Establish academic partnerships across the world so as to cultivate new frontiers of knowledge.

Open Innovation
Initiate a fundamental shift from "industry-university collaboration" to "industry-university co-creation." Discover new themes and tasks in basic science by assessing emerging social demands. Undertake Open Innovation through which to create new social values.

Open Community
Help solve local and global issues and contribute to optimal social development through our strength in science, culture, art and medics. Create an Open Community, a social space where diverse knowledge and people meet and interact.

Open Governance
Exceed the expectations of society through continual reform and improvement by maximizing the agency of every member of the university. Implement Open Governance: a solid and transparent university management system that balances leadership and consensus.

Japanese Nobel Laureate, Hideki YUKAWA’s favorite blackboard Hideki YUKAWA received a Ph.D. degree from Osaka University and worked at Osaka University from 1933 to 1953. The blackboard used by Dr. YUKAWA regularly used at Columbia University was donated to Osaka University in 2014.