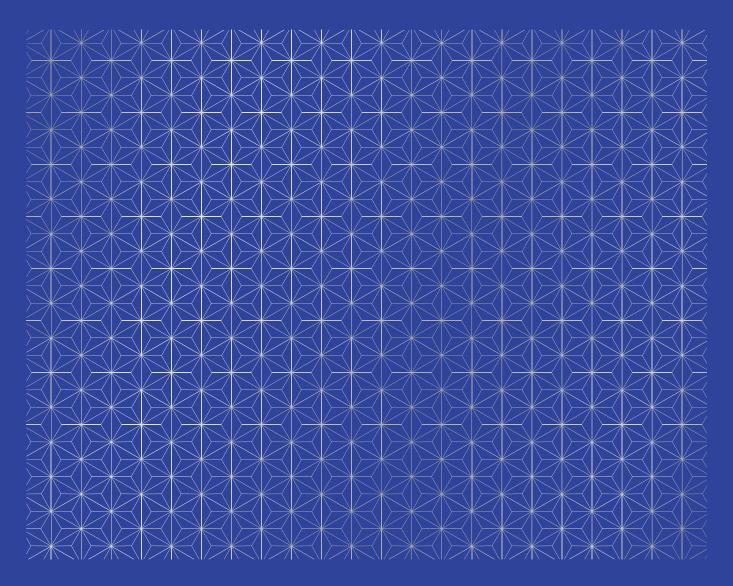
# Portrait of the University

OSAKA UNIVERSITY PROSPECTUS 2018



Osaka University at a Glance Where You Can Find Your OMOROI	03
Research Leading Innovation through Co-Creation	08
Organization Solid Foundation for Education and Research	17
Education Nurturing Leaders for the Global Society	20
Global Engagement Strong Connections with International Partners	27
History Ties with the Past, Aspirations for the Future	33
Access Spacious Campuses Located in Northern Osaka	30
Osaka University Vision 2021 A World-Leading Innovative University	30



omoroi adjective interesting; Osaka dialect that encompasses the emotions of excitement, curiosity, and anticipation all in one word.

#### Facts and Figures

#### Organization (as of May 1, 2017)



11

Schools



**IO**Graduate Schools



Research Institutes, Centers, and Facilities



University Libraries



4

University Hospitals Overseas Centers

#### Faculty and Staff \* female staff (as of May 1, 2017)



3,225 478\*

Academic Staff

3,291 2,100\*

Researchers, Administrative Staff, Medical Staff, etc.

#### Students (as of May 1, 2017)



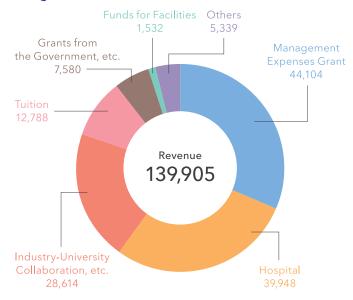
15,358

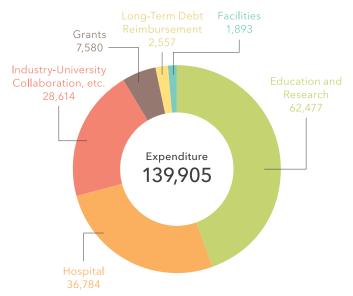
Undergraduate Students

7,930

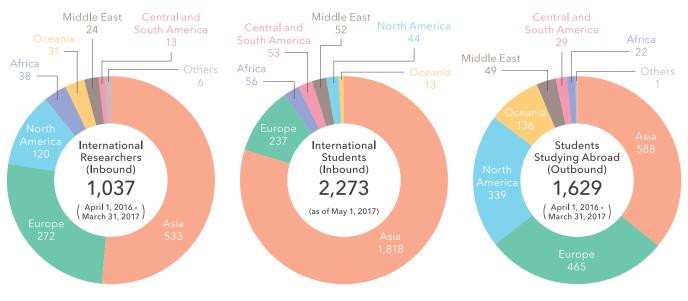
Graduate Students

#### Budget FY2017, in millions of yen

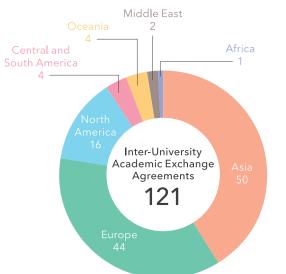


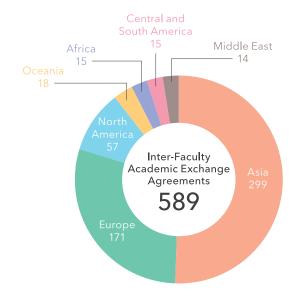


#### International Exchange



#### Academic Exchange Agreements (as of October 1, 2017)





#### Prizes and Awards

#### **Nobel Prize**

# Hideki YUKAWA

1949, Physics

#### Lasker Award



1982

#### Gairdner International Award



2011

#### **Wolf Prize**



1986, Medicine

# Mikio SATO

2002-2003, Mathematics

Japan Prize

#### **Crafoord Prize**



2009



Shimon SAKAGUCHI

2015

2017

#### Claude E. Shannon Award



1999

Tadamitsu KISHIMOTO
Toshio HIRANO

2011

#### Kyoto Prize



#### 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 to creating new knowledge and therefore leads to innovation.



#### Design

Identify the important issues that need to be addressed together with society.



#### Coordination

Create capable project teams that can develop plans for social solutions through joint research.



#### Management

Manage projects and teams whose members include researchers from various fields.

#### **Public Relations**

Present project outcomes to society, and based on the value generated, provide feedback to the next "co-creative" project returning to the design

stage.

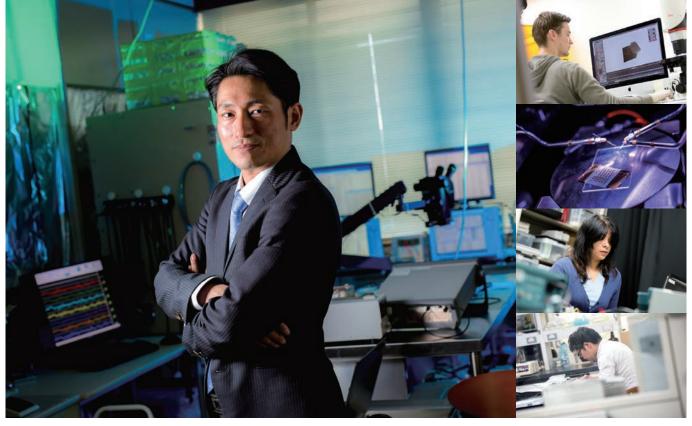


#### Social Solution Initiatives Our university "think tank"

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.





# Tsuyoshi SEKITANI

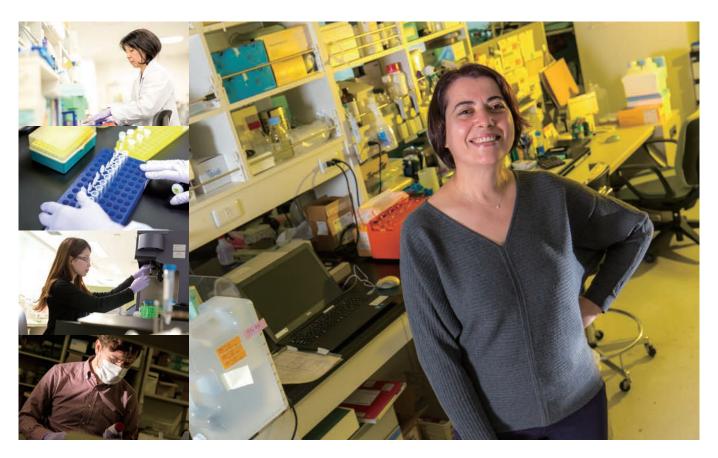
Osaka University Distinguished Professor Professor, The Institute of Scientific and Industrial Research

Professor Tsuyoshi SEKITANI, a world-leading researcher in advanced electronic devices, was included on Thomson Reuters' "The World's Most Influential Scientific Minds" for 2014, and awarded the JSPS Prize (2016), IEEE Paul Rappaport Award (2009, 2010), and over 35 others. In 2016, he was the first in the world to develop a patch-type brain sensor, which is being promoted in medical fields. He will never stop challenging himself to create the future, and to remake society.

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 be 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.



#### Cevayir COBAN

Professor Immunology Frontier Research Center (IFReC) Open and Transdisciplinary Research Initiatives

Professor Cevayir COBAN, recipient of the 2017
Japanese Society for Immunology (JSI) Women
Immunologist Award, is a specialist in malaria
immunology. Her research is often cited by other
researchers in her field, and is garnering attention for
her continual breakthroughs in malaria research.
As a woman in research, she is a firm believer in a
healthy work-life balance, feeling that family, career and
life can go together.

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.



#### Researchers' Stories

#### Miki KOHARA

Professor Osaka School of International Public Policy

Professor Miki KOHARA, a professor of labor economics, has carved her niche in the economical connections between people, families, and society, and through objective analysis, connects her findings to political policies and proposals.

In addition, as a researcher, she feels a need to set an example to students that women in male-dominated academic studies in Japan can flourish; and is committed to education under the firm belief that education and research are inseparable.

I am focusing my attention on research involving household behavior in Japan. Household behavior is the hidden force that drives society, and the economy of a household is where changes in political policy ultimately effect. That is the kind of micro research I would like to fixate on. Moreover, I make sure to completely comprehend the nature or meaning and circumstances behind the data in order to use and apply it correctly without any room for misinterpretation. I want to continue revealing positive research results on data collected in Japan to the world.

I have been at Osaka University since I began my master's studies here. A unique aspect of Osaka University is the way the professors from the economics program, and even those from other fields, embodied the spirit of a professor with their instructions and the way they looked after me. They created a wonderful environment for research, and I looked forward to every day. I was blessed with so many mindful professors, I decided that that was the kind of professor I wanted to become.



#### Yasuko OSAKADA

Associate Professor Institute for Advanced Co-Creation Studies The Institute for Scientific and Industrial Research

Associate Professor Yasuko OSAKADA got her doctorate degree from Osaka University, then spent four years at Stanford University, before returning to Osaka University in 2014.

In 2017, she began work at the newly organized Institute for Advanced Co-Creation Studies for the cultivation of young researchers in industry-university co-creation as an Associate Professor in photochemistry.

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.



#### Researchers' Stories

#### Atsuro MORITA

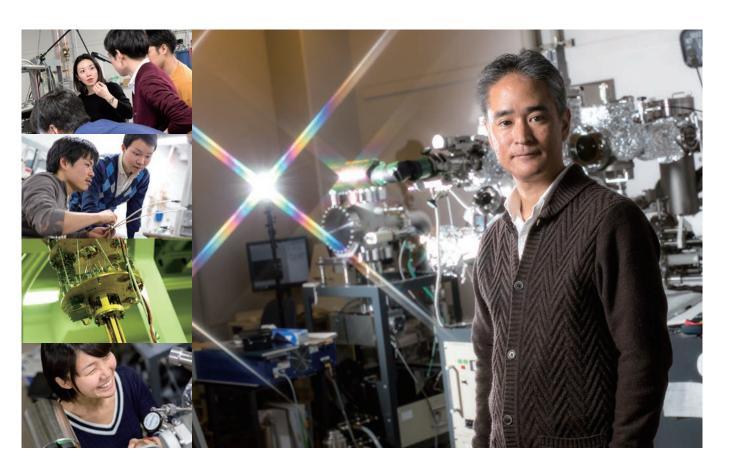
Associate Professor Graduate School of Human Sciences

Associate Professor Atsuro MORITA's specialty is in anthropology, with research focusing on how society relates to science and technology. For him, anthropology's draw is the study of humanity by plunging oneself into foreign cultures, therein discovering new ways of thinking. He has been working with researchers from Denmark, the Netherlands and the United Kingdom doing joint research since 2016, all the while building a robust network of international relationships.

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.

2 1:



#### Kensuke KOBAYASHI

Osaka University Distinguished Professor Professor, Graduate School of Science

Professor Kensuke KOBAYASHI is a professor of physics who has been awarded the Yukawa-Tomonaga Memorial Prize (2011), Ryogo Kubo Memorial Prize (2012), JSPS Prize (2014), and the Japan Academy Medal Prize (2014) for his work regarding fluctuations in quantum systems. Other than striving towards world-first breakthroughs in research, he feels that top-tier professors are ones who can focus a student's efforts on experiencing originality, no matter how small an idea is.

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 has also become 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 regarded to already be at their limit. However, research that has won Nobel Prizes 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.

#### Research Outcomes

#### Rankings



QS World University Rankings 2018

63 (4)\*



Reuters Top 100: The World's Most Innovative Universities

21 (2)\*



Nature Index Innovation 2017

31 (1)\*

\* Rank among universities in Japan.

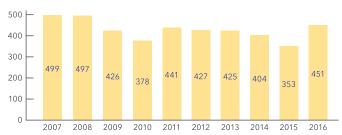


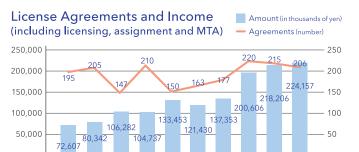
Highly Cited Researchers by Clarivate Analytics "The Most Influential Scientific Minds" for 2017

5 Immunology 2 Chemistry

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

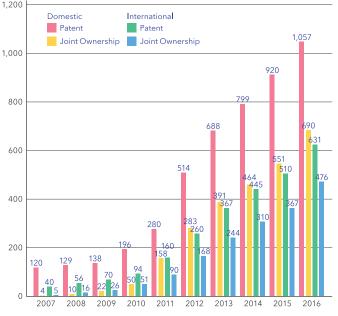
#### The Number of Invention Disclosures





2008 2009 2010 2011 2012 2013 2014 2015 2016

#### The Number of Patents held by Osaka University



#### 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)

(in 10 millions of yen)

2,500

2,277

2,191

2,050

1,880

1,946

1,880

1,880

1,880

1,880

2007

2007

2008

2009

2010

2011

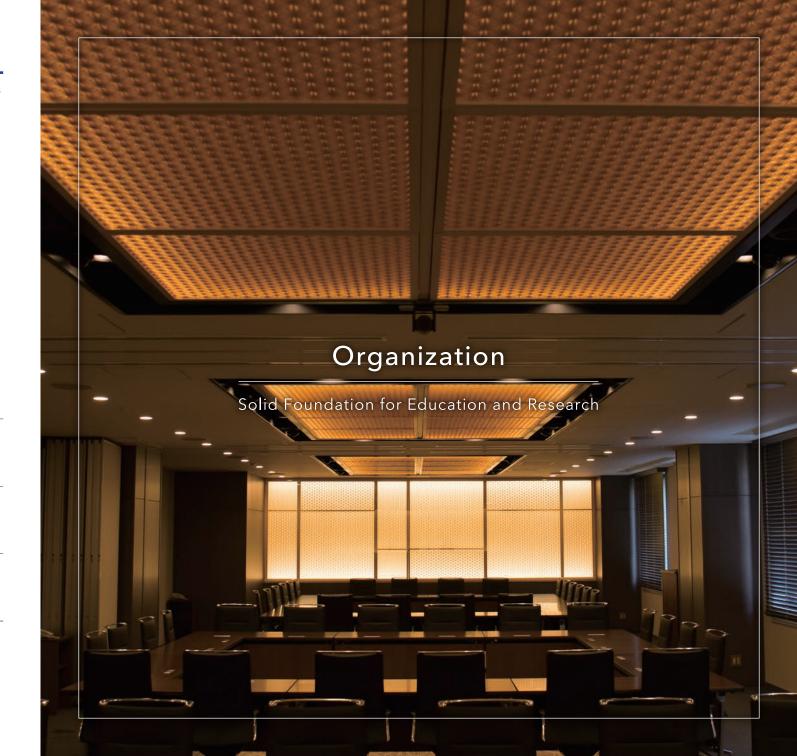
2012

2013

2014

2015

2016



#### Schools/Faculty

Letters

**Graduate Schools** 

**Human Sciences** 

Letters

Human Sciences Law and Politics Foreign Studies

Law **Economics** Science Economics Medicine Science Medicine Dentistry

Pharmaceutical Sciences Dentistry

Pharmaceutical Sciences

Engineering

**Engineering Science** Language and Culture

International Public Policy Information Science and Technology

Frontier Biosciences

**Engineering Science** 

Law School

Engineering

Child Development

#### **University Libraries**

Main Library

Life Sciences Library

Science and Engineering Library

International Studies Library

#### **University Hospitals**

Osaka University Dental Hospital

#### Research Institutes. Centers and Facilities

Research Institute for Microbial Diseases

The Institute of Scientific and Industrial Research

Institute for Protein Research

Institute of Social and Economic Research

Joining and Welding Research Institute

Institute of Laser Engineering

Low Temperature Center

Research Center for Ultra-High Voltage Electron Microscopy

Radioisotope Research Center

Research Center for Environmental Preservation

Center for International Education and Exchange

International Center for Biotechnology

Research Center for Solar Energy Chemistry

The Museum of Osaka University

Health and Counseling Center

Global Center for Medical Engineering and Informatics

Center for Mathematical Modeling and Data Science

Center for Scientific Instrument Renovation and

Manufacturing Support

Center for Japanese Language and Culture

Institute for NanoScience Design

Intellectual Property Center

Research Center for Nuclear Physics

Cybermedia Center

#### Administration Bureau Co-Creation Bureau Social Solution Initiatives

# **Education and Research Support Organizations**

Institute for Advanced Co-Creation Studies

Institute for Academic Initiatives

Open and Transdisciplinary Research Initiatives

Institute for Datability Science

Center for Education in Liberal Arts and Sciences

Center for Gender Equality Promotion

Center for the Study of Co\* Design

Center for Global Initiatives

Tekijuku Commemoration Center

Kaitokudo for the 21st Century

Office for Industry-University Co-Creation

Office for Information and Communications Technology Services

Department for the Administration of Safety and Hygiene

Office of the General Counsel

#### **Overseas Centers**

North American Center for Academic Initiatives

European Center for Academic Initiatives

ASEAN Center for Academic Initiatives

East Asian Center for Academic Initiatives



#### Osaka University Nakanoshima Center

Research Institute

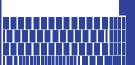
Immunology Frontier Research Center

International Advanced



## Institute for Advanced Interdisciplinary Research

Center for Information and Neural Networks







Osaka University Hospital





















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# Nurturing Leaders for the Global Society

#### Students' Voices

#### Kanami TANIGAWA

2nd Year Master's Graduate School of Medicine (Japan)

Teachers positively cooperate in the "omoroi!" plans that students make. The nature of this relationship has a great appeal to Osaka University students who like "omoroi" 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 Tenshin-mabo, 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 in 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.

#### Students' Voices

# Sunyanan CHOOCHOTKAEW

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 with 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 I am 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

Unveiled in 1997, the Prius was the first mass-produced hybrid vehicle in the world. Friendly to both environment and driver, the 4th generation Prius has boasted fantastic sales since its release in December 2015, and sales continue to coast.

Kouji TOYOSHIMA, in charge of its development, gained

Kouji TOYOSHIMA, in charge of its development, gains knowledge at Osaka University to create his ideal vehicle.

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 knowledge 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 own 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.

made oil her mission in life.

Yuka OBAYASHI was your typical university student, wiling away her days studying, seeking entertainment, and working part time, until her life made a complete 180 upon discovering a famous brand of olive oil during her travels in Shodo Island. She quit her job, became a student of oil, and at 26 she started her company, "ablabo," that makes and sells oil.

She stayed positive in the face of daily adversity, and

Though I knew nothing of making oil, I was taken in by a 92 year old oil artisan and proudly made it my mission in life to have many people come to know how delicious oil can be, and built 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 become interested in my university days. Friends from those days and I often spoke at long lengths 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 oil is 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.

#### Academic Programs 🖟 www.osaka-u.ac.jp/sp/whyou

#### Degree Programs in English

#### Undergraduate Programs

School	Course/Program
Human Sciences	Human Sciences International Undergraduate Degree Program
Science, Engineering, Engineering Science	Chemistry-Biology Combined Major Program

#### **Graduate Programs**

Graduate School	Course/Program
Science	Special Integrated Science Course
	International Physics Course
Engineering	Biotechnology Global Human Resource Development Program
	Chemical Science Course
	International Priority Graduate Program of "Quantum Engineering Design Course"
	International Program of Maritime and Urban Engineering
Engineering Science	Special Program of "Engineering Science 21st Century"
Information Science and Technology	Information Technology Special Course in English

#### Double Degree Programs

The double degree program allows graduate students to register as a regular student at Osaka University and a foreign university simultaneously and obtain degrees from both. For details, please contact the office of the relevant graduate school.

#### Master's Programs (as of October 1, 2017)

Graduate School	Partner Institutions
Science	Al-Farabi Kazakh National University
	Bandung Institute of Technology (ITB)
	University of Malaya
	Vietnam National University - Ho Chi Minh City
Engineering	Bandung Institute of Technology (ITB)

	King Mongkut's University of Technology Thonburi
	Mahidol University
Engineering Science	Justus Liebig University Giessen
International Public Policy	De La Salle University
	University of Groningen

#### Doctoral Programs (as of October 1, 2017)

Graduate School	Partner Institutions
Law and Politics	National Taiwan University
Science	Al-Farabi Kazakh National University
	Bandung Institute of Technology (ITB)
	De La Salle University
	National Tsing Hua University
	Shanghai Jiao Tong University

	University of Malaya
	Vietnam National University – Ho Chi Minh City
Engineering	Bandung Institute of Technology (ITB)
	De La Salle University
	Philippine Normal University
	Universiti Sains Malaysia

#### 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.

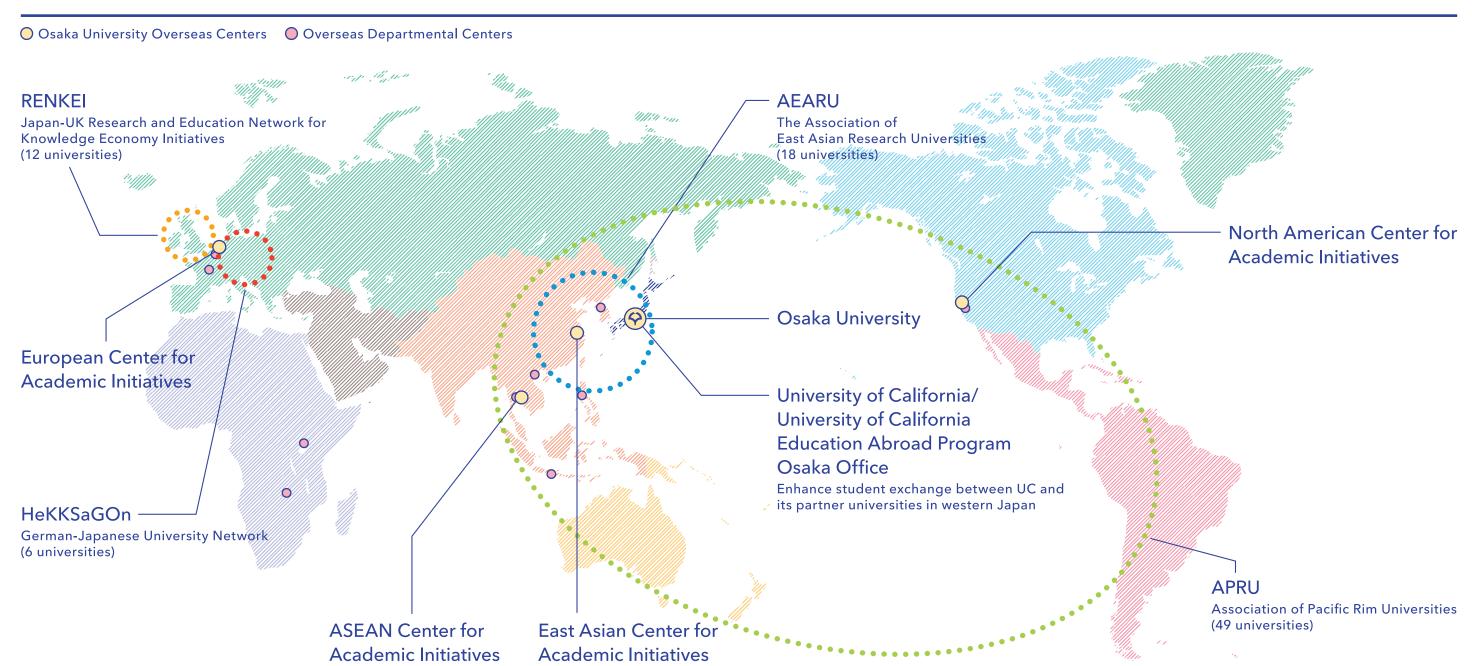


#### Support Office for International Students and Researchers

Provides information about VISA procedures and accommodation.

iss-intl.osaka-u.ac.jp/supportoffice/





#### Inter-University Academic Exchange Agreements (as of October 1, 2017)

#### Europe

#### Austria

• University of Vienna

#### Belgium

- Interuniversitair Micro-Electronica Centrum vzw (IMEC)
- Université catholique de Louvain

#### Denmark

· University of Copenhagen

#### **⊕** Finland

- Åbo Akademi University
- University of Helsinki

#### France

- Aix-Marseille University
- Communauté Université Grenoble 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

- Ruhr-Universität Bochum
- RWTH Aachen University
- Technical University of Munich
- Technische Universität Berlin
- University of Augsburg
- The University of Göttingen

#### 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

#### Saudi Arabia

King Abdulaziz University

#### Africa

- Egypt
- Alexandria University

#### Oceania

#### Australia

- Australian National University
- Monash University
- The University of Adelaide
- The University of Queensland

#### Asia

#### 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
- Tongji University
- Tsinghua University
- The University of Hong Kong
- Wuhan University

- Xi'an Jiaotong University
- Zhejiang University

#### India

• Indian Institute of Technology, Hyderabad

#### Indonesia

- Airlangga University
- Bandung Institute of Technology (ITB)
- Universitas Gadjah Mada
- Universitas Indonesia

#### Korea

- · Changwon 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

#### 

University of Yangon

#### The Philippines

- Ateneo de Manila University
- De La Salle University
- University of the Philippines

#### Singapore

- Nanyang Technological University
- National University of Singapore

#### Taiwan

- National Cheng Kung University
- National Chiao Tung University
- National Taiwan University
- · National Tsing Hua 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

#### ∇ietnam

- · Can Tho University
- Vietnam Academy of Science and Technology
- Vietnam-Japan University
- · Vietnam National University, Hanoi
- Vietnam National University-Ho Chi Minh City

#### North America

#### Canada

- McMaster University
- TRIUMF
- The University of British Columbia
- University of Toronto

#### USA

- Cornell University
- Lawrence Livermore National Laboratory

- · Nazareth College of Rochester
- Purdue University
- Rice University
- Texas A&M University
- University of Georgia
- University of California
- University of California, Berkeley
- University of California, San Diego
- University of Washington
- Wesleyan College

#### 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 Osaka University. You can check the research results of International Joint Labs at: resou.osaka-u.ac.jp/en/highlight

China Beijing University of Technology National Center for Nanoscience and Technology, Chinese Academy of Science Northeast Normal University The University of Hong Kong India Tata Institute of Fundamental Research Korea Seoul National University Malaysia Universiti Sains Malaysia Taiwan Academia Sinica National Taiwan University  Thailand Chulalongkorn University  Oceania Australia European Molecular Biology Laboratory (EMBL) at Monash University  North America  Canada TRIUMF University of Montreal University of Victoria  USA Baylor College of Medicine California Institute of Technology Carnegie Mellon University Iowa State University Johns Hopkins University Massachusetts Institute of Technology Purdue University Rice University University of California, Davis University of California, Los Angeles The University of Chicago University of Hawaii University of Minnesota  Europe Austria Johannes Kepler University Linz	Asia	
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University of California, Los Angeles The University of Chicago University of Hawaii University of Kentucky University of Minnesota		Rice University
The University of Chicago University of Hawaii University of Kentucky University of Minnesota Europe		University of California, Davis
University of Hawaii University of Kentucky University of Minnesota Europe		University of California, Los Angeles
University of Kentucky University of Minnesota Europe		The University of Chicago
University of Minnesota Europe		University of Hawaii
Europe		University of Kentucky
		University of Minnesota
Austria Johannes Kepler University Linz	Europe	
	Austria	Johannes Kepler University Linz

Czech Republic	Masaryk University
Denmark	University of Copenhagen
Finland	Åbo Akademi University
	University of Helsinki
France	École Centrale de Nantes
	École Polytechnique / The National Center for Scientific Research (CNRS)
	Université Paris Nanterre
	University of Strasbourg
Germany	Leibniz Universität Hannover
	Physikalisch-Technische Bundesanstalt (PTB)
	Ruhr-Universität Bochum
	Technische Universität Darmstadt
Hungary	Institute for Solid State Physics and Optics, Wigner Research Centre for Physics, Hungarian Academy of Sciences
Italy	Istituto Italiano di Tecnologia
	Università degli Studi di Napoli Federico II
Slovakia	Slovak Academy of Sciences
Spain	Universidad Carlos III de Madrid (UC3M)
	Universidad Politécnica de Madrid (UPM)
Sweden	Uppsala University
Switzerland	Eidgenössische Technische Hochschule Zürich
	University of Lausanne
The Netherlands	University of Amsterdam
UK	Imperial College London
	King's College London
	The University of Manchester
	University of Oxford
Africa	
Morocco	Moroccan Foundation for Advanced Science, Innovation and Research (MAScIR)



#### History

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.





# 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



2004
National University
Corporation
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.

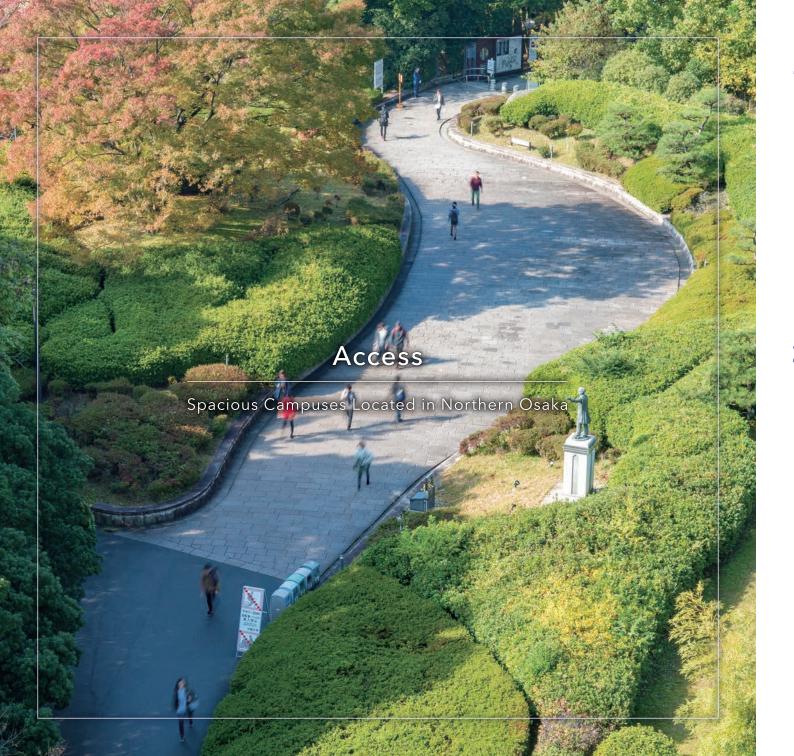




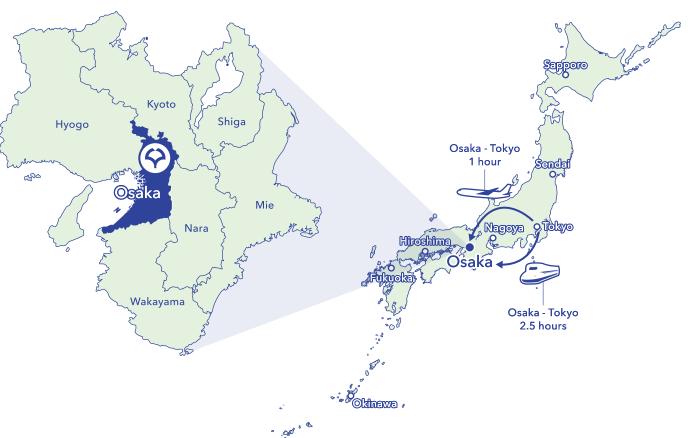
2021
90<sup>th</sup> Anniversary of Osaka University
100<sup>th</sup> Anniversary of Osaka University of Foreign Studies

# 1838 Tekijuku

Tekijuku was a private academy in Osaka founded in 1838 by OGATA 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.



# Campus Locations and Transportation





# Osaka University Vision 2021

A World-Leading Innovative University

**Open Education** 

Open Research



Open Innovation

Open Governance

**Open Community** 

#### Open Education

Train students to search for the truth and explore knowledge beyond university campuses in the larger society.
Achieve Open Education by integrating

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 medicine.

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.

# 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

Japanese Nobel Laureate, Hideki YUKAWA's favorite blackboard

Hideki YUKAWA received a PhD degree from Osaka University and worked at Osaka University from 1933 to 1939.

This blackboard that Dr. YUKAWA regularly used at Columbia University was donated to Osaka University in 2014.







# **OSAKA UNIVERSITY**

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