WASEDA University

Research Activities

早稲田大学
Waseda that Shines on the World Stage as an International Research University

Focusing on creating an environment where researchers from all over the world gather and improve each other under the pillar of “Research Waseda”

As the 17th president of Waseda University, I have said that my biggest task is to transform Waseda into a leading university that shines on the world stage. To fulfill that, we need to take over the Waseda Vision 150 mid-to-long term strategic plan and take it to its next phase. In envisioning a new grand design, we have established the three pillars of Waseda’s research, education, and social contribution, with our research positioned as the most important endeavor. We will attract respected researchers from around the world to Waseda University to conduct high-quality research activities, and reflect those results in education to foster excellent students and outstanding young researchers to further enhance research. My aim is to create such a virtuous circle.

Looking back on history, Waseda was the first university to establish a Faculty of Science and Engineering in Japan and has emphasized collaboration between science and engineering. Recently, progress has been made in collaboration with biomedical sciences. In the future, collaboration in social sciences, the humanities, and natural sciences will also become important. I expect that the strength of Waseda University’s environment that enables interdisciplinary research beyond faculties and fields, such as the Center for Data Science, will be demonstrated to a greater extent than ever.

Waseda University will continue to actively promote research that fuses the humanities, social sciences and sciences in response to the demands of the times and will continue to strive to apply those results in the real world. I cherish this fundamental attitude that stems from the founding principles of the university and will tirelessly push forward to realize Waseda’s 2032 research vision of “research that contributes to realization of global peace and human happiness.”

President, Waseda University

Aiji Tanaka

17th president of Waseda University, Dr. Tanaka completed his undergraduate studies at the School of Political Science and Economics at Waseda University in 1975 and later did his graduate studies at Ohio State University where he received his Ph.D. in 1985. He was an assistant professor at Toyo Gakuin University, professor at Aoyama Gakuin University, and professor at the Faculty of Political Science and Economics at Waseda prior to becoming president. He also served as a director of the Academic Affairs Division at Waseda from 2006 and as the chairman of the International Political Science Association.
Waseda’s three founding principles

On Waseda University’s 30th anniversary in October 1913, President Shigenobu Okuma proclaimed its newly adopted Mission Statement.

Waseda University holds as its founding principles the preservation of the independence of scholarship, the promotion of the practical application of scholarship, and the fostering of good citizens.

Holding the independence of scholarship as a central principle, Waseda University pledges to contribute to the scholarship of the world by regarding freedom of research as essential and devoting itself constantly to original research.

Holding the practical application of scholarship as a central principle, Waseda University pledges to contribute to the progress of the times by establishing a path for the practical use of scholarship as well as pursuing theoretical research for its own sake.

Holding the fostering of good citizens as a central principle, Waseda University pledges to cultivate people of character who can respect individuality, develop themselves and their families, benefit the nation and society, and be active in the world at large.

Striving to realize the founding principles in a way that is fitting for modern society From the three founding principles to Waseda Vision 150

The Principle on which the Contribution to the World is Made

To be free from any restriction and have a free spirit of criticism, fixing your eyes upon the nature of things you see, is what serves as the foundation of the independence of learning. Waseda University shall contribute to the creation of knowledge and the development of learning by conducting research and investigation in the fields of humanities, social science, and natural science-and any field integrating them-in an environment where students and members of the faculty interact independently and freely, and by disseminating the outcomes to the world at large.

Ways and Means of Contributing to the World

Academic research will find its way for further development when we step outside the world of academic research and learning and carve ways of utilizing the knowledge gained there for culture, society, and industry. In addition to educational and research activities at the undergraduate and graduate schools, Waseda University shall work to enhance education for professionals and life-long education, creating a new era through the interaction of theoretical studies and the application of theories supported by such studies in practice.

People Contributing to the World

It is students that universities send out to society that constitute the most significant outcome of university education. Waseda University shall educate global citizens with sufficient knowledge, moral character, and courage and, moreover, physical strength and flexible sensitivity, to be able to break through the situation, no matter where they are in the world and no matter how difficult the situation may look, by their own will and in cooperation with others surrounding them.

Four visions from “Waseda Vision 150”

<table>
<thead>
<tr>
<th>Vision</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vision 1</td>
<td>Students of the Highest Caliber and Character Who Show Promise in Being Able to Contribute to the World</td>
</tr>
<tr>
<td>Vision 2</td>
<td>Research That Will Ultimately Contribute to Real World Peace and Happiness in Human Society</td>
</tr>
<tr>
<td>Vision 3</td>
<td>Graduates Who Will Contribute to the Public Good as Global Leaders</td>
</tr>
<tr>
<td>Vision 4</td>
<td>Asia’s Premier “Model University” Adaptable to a Changing World</td>
</tr>
</tbody>
</table>

The Founding Spirit of Waseda University

Waseda University started life as Tokyo Senmon Gakko (Tokyo College) in 1882 by Shigenobu Okuma. Since then, with the aim of realizing Shigenobu Okuma’s ideal of developing an institution of higher education that is comparable with government institutions, Waseda University has steadily developed as one of the leading private institutions of Japan. Our history is underpinned by the three founding principles, centered around “Independence of Learning,” and the policies including “the spirit of progressivism,” “the outsider’s spirit,” and “harmony between Eastern and Western civilizations.”

With this history as the foundation, and based on the “Waseda Vision 150” drawn up in the autumn of 2012, we have continued to move forward so as to remain as “Waseda,” a global leader in university education.
History of Waseda University

1882
Tokyo Senmon Gakko (College) founded by Shigenobu Okuma with the Departments of Political Science, Law, English, and Physical Science.

1890
Department of Literature established.

1900
Faculty members sent to Europe and America for the first time under the newly established Foreign Travel Scholarships for faculty members.

1902
University Library building completed.

1903
School of Education established.

1904
University status acquired under Senmon Gakko School Act. School of Commerce established.

1905
School for Chinese students established (closed in 1910).

1906
School of Science and Engineering established.

1920
Chartered under the newly enacted University Act comprising five undergraduate schools: Political Science and Economics, Law, Literature, Commerce, and Science and Engineering. Department of Commerce added and a professional training division.

1922
Death of Shigenobu Okuma, founder of the University.

1925
New University Library and Student Hall completed.

1927
Okuma Auditorium completed.

1928
Tsubouchi Memorial Theatre Museum completed.

1939
Coeducation introduced.

1940
Science and Engineering Research Laboratory established. Institute of Social Sciences established.

1945
One third of the campus destroyed by air raids.

1949
Four year college curricula established, with eleven schools, in accordance with the new education law.

1951
Graduate Schools (master’s degree program) under the new educational program established, with six schools.

1956
Waseda has turned out many politicians including several prime ministers since Tanzan Ishibashi becomes the first Waseda alumnus to be elected PM.

1957
Together with Tanzan Ishibashi, Indian Prime Minister Jawaharlal Nehru is the first recipient of an honorary doctorate from Waseda.

1958
Tsubouchi Hall designs Tokyo Tower.

1963
International Division established.

1966
School of Social Sciences established.

1974
Archaeological excavation of the Malkata site.

1981
Extension Center established.

1982
Waseda Horo Senior High School started as an affiliated school.

1987
School of Human Sciences established.

1989
Department of Literature established.

1990
Acquisition of university status. Renamed Waseda University, the institution comprised Schools of Political Science & Economics, Law, and Literature, seven senmon-bu (junior colleges), and a single graduate school.

1991
Center for Scholarly Information established.

1993
Bill Clinton gives a lecture at the Okuma Auditorium.

1995
Nelson Mandela is awarded an honorary doctorate and speaks passionately about democracy and peace in his recipient’s address.

1998
Alzu Museum founded.

2000
Open Education Center established.

2002
Hirayama Ikuo Memorial Volunteer Center established.

2003
Wangari Muta Maathai, the Nobel laureate for Peace receives an honorary doctorate.

2004
Schools of Languages, Arts and Sciences I and II were reorganized into School of Culture, Media and Society and School of Humanities and Social Sciences.

2005
Chairman and Chief Software Architect of Microsoft Corp. William Henry “Bill” Gates II receives an honorary doctorate.

2007
Schools of Letters, Arts and Sciences I and II were reorganized into School of Culture, Media and Society and School of Humanities and Social Sciences.

2012
The founding and opening ceremony of Tokyo Senmon Gakko (College) was held on October 21. At the ceremony, the Principal, Hidemaro Okuma, recited a text on the founding of the school, Azusa Ono delivered an address, and a declaration was made on the spirit of “Independence of Learning.” The departments of political science, law, physical science, and English were established, and 48 students were admitted as the first batch of students.

The “Group of Four” who contributed to the development of Waseda University

The “Group of Four” refers to the four individuals who participated in the founding and management of Waseda University, and contributed to its development. Sanae Takata served as the first Principal and third President of the institution, and poured his efforts into raising the institution to the rank of university as well as establishing the school of science and engineering. Tameyuki Amano was the Director of the School of Commerce when it was first opened, and soon became the second Principal of the University. Shooyo Tsubouchi built the foundations for the present-day Department of Literature. Kenichi Ichijima worked hard to realize the economic independence of the university, and also contributed to the expansion of the library.

1903
Start of the Waseda-Keio baseball match (Sokeisen)

Along with the Cambridge-Oxford boat races and the Harvard-Yale football match, the Waseda-Keio baseball match (Sokeisen) is named among the three major university sporting events in the world. A tradition that can be traced back to 1893, its appeal lies in the baseball teams of the two universities battling to preserve the honor of their alma mater, as well as the grand scale of support offered from the stands.
Tachu Naito, a professor emeritus of Waseda University, was also a leading structural designer who designed around 60 towers in his lifetime. Measuring 333m in height, Tokyo Tower combined safety with structural beauty and was the tallest self-standing steel tower in the world at the time.

1922
Visit by physicist Albert Einstein to Waseda University
On November 29, 1922, Professor Einstein visited Waseda University during his visit to Japan, and held a meeting with President Masasada Shirizawa who had once studied at Berlin University. At the welcome ceremony held in the central courtyard, more than 10,000 students and faculty welcomed Professor and Mrs. Einstein with enthusiastic applause. When they left, they were sent off with a chorus of the university’s anthem.

1928
Japan’s first gold medalist
At the Amsterdam Olympics, Mikio Oda from Waseda University’s track and field club became the first Japanese to win a gold medal for the triple jump. The same track and field team attended a sports meet for international students held in Paris on their way back to Japan from the Olympics, opening the path to participation in the Universiade later on.

1940
“Visas for life” from diplomat Chiune Sugihara
In 1918, Chiune Sugihara gained admission to the Department of English at Waseda University’s Higher Normal School (the School of Education today). In 1940, Sugihara, who was then working at the Japanese Consulate in Lithuania, issued visas against orders from the Ministry of Foreign Affairs, thus saving about 6,000 Jews. His humanitarian act is highly appraised by the international community.

1956
The beginnings of the Ishibashi Cabinet, first alumnus of Waseda to become Prime Minister
In December 1956, Tanzan Ishibashi, former student of Waseda, was elected as President of the Liberal Democratic Party. In the nomination for the head of the government in both the upper and lower houses of the Diet held during the same month, Ishibashi defeated Masaburo Suzuki, Chairman of the Socialist Party and also alumnus of Waseda, to become the Prime Minister of Japan. These are the origins of our first Prime Minister from Waseda.

1958
Emeritus Professor Tachu Naito of Waseda University designs Tokyo Tower
Tachu Naito, a professor emeritus of Waseda University, was also a leading structural designer who designed around 60 towers in his lifetime. Measuring 333m in height, Tokyo Tower combined safety with structural beauty and was the tallest self-standing steel tower in the world at the time.

1962
Robert Kennedy attends student debate
In the midst of the protest against the Japan-U.S. Security Treaty in 1962, then U.S. Attorney General Robert Kennedy and his wife attended a student debate at the Okuma Auditorium. The couple was touched by the joint singing of the university’s anthem by groups that were both for and against the Treaty. When they visited Japan again, they remembered the anthem well and sang it together with the students.

1974
Archaeological excavation of the Malkata site
In 1966, an archaeological team from Waseda University became the first Japanese people to launch an archaeological excavation mission at an ancient Egyptian site. In 1974, the team became the first in the history of archaeological excavations in Egypt to discover the “colored staircase” in Malkata. The team earned credibility with Egypt’s Ministry of Antiquities, and was rated highly in Japan.

1993
Visit to Waseda University by then U.S. President Bill Clinton
In 1993, Bill Clinton, then President of the United States of America, visited Waseda University. Thereafter, the university continued to welcome visits by many distinguished guests from around the world, including Hu Jintao, former President of the People’s Republic of China in 2008, and former UN Secretary-General Ban Ki-moon in 2010.

2012
Formulation of Waseda Vision 150
Waseda Vision 150 was formulated in 2012 with a view to the 150th anniversary of the university’s founding in 2032. Waseda University has dramatically improved the quality of education and research, and will continue to contribute to the world as a leading university of Asia.
**Faculty and Students**

*Number of faculty members as of April 2019
|| Number of Students to be admitted as of May 2019
*Includes professional degree school

### Faculty of Political Science and Economics
- Faculty of Political Science and Economics: 140
- School of Political Science and Economics: [3,600]
- Graduate School of Political Science: [410]
- Graduate School of Economics: [320]

### Faculty of Law
- Faculty of Law: 145
- School of Law: [2,960]
- Graduate School of Law: [260]
- Waseda Law School: [600]

### Faculty of Letters, Arts and Sciences
- Faculty of Letters, Arts and Sciences: 218
- School of Culture, Media and Society: [3,440]
- School of Humanities and Social Sciences: [2,640]
- Graduate School of Letters, Arts and Sciences: [1,095]

### Faculty of Education and Integrated Arts and Sciences
- Faculty of Education and Integrated Arts and Sciences: 166
- School of Education: [3,840]
- Graduate School of Education: [447]

### Faculty of Commerce
- Faculty of Commerce: 171
- School of Commerce: [3,600]
- Graduate School of Commerce: [280]
- Graduate School of Accountancy: [200]
- Waseda Business School: [510]

### Faculty of Science and Engineering
- Faculty of Science and Engineering: 629
- School of Fundamental Science and Engineering: [2,380]
- School of Creative Science and Engineering: [2,380]
- School of Advanced Science and Engineering: [2,160]
- Graduate School of Fundamental Science and Engineering: [1,280]
- Graduate School of Creative Science and Engineering: [1,207]
- Graduate School of Advanced Science and Engineering: [1,430]
- Graduate School of Environment and Energy Engineering: [121]
- Graduate School of Information, Production and Systems: [460]

### Faculty of Social Sciences
- Faculty of Social Sciences: 81
- School of Social Sciences: [2,520]
- Graduate School of Social Sciences: [192]

### Faculty of Human Sciences
- Faculty of Human Sciences: 119
- School of Human Sciences: [2,240]
- Graduate School of Human Sciences: [375]

### Faculty of Sport Sciences
- Faculty of Sport Sciences: 86
- School of Sport Sciences: [1,600]
- Graduate School of Sport Sciences: [370]

### Faculty of International Research and Education
- Faculty of International Research and Education: 123
- School of International Liberal Studies: [2,400]
- Graduate School of International Culture and Communication Studies: [130]
- Graduate School of Asia-Pacific Studies: [330]
- Graduate School of Japanese Applied Linguistics: [145]

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**Wide range of subject groups that students can take up regardless of their faculty or academic year**

With the provision of diverse opportunities of learning that are available to all students regardless of their faculty or academic year, students are able to create their own unique “knowledge systems.” The learning choices that students have extend infinitely through university-wide open subjects that all students can take up freely. By combining these subjects with the courses in their own departments, students can create a complete curriculum of their own.

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**From the World**

*7,942 people*  
From 125 countries and regions to Waseda

**To the World**

*4,629 people*  
A learning space from Waseda to the world

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**Foremost overseas network among universities in Japan**

93 countries and regions

848 universities and academic institutions

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**2,400+ subjects**

Wide range of subject groups that students can take up regardless of their faculty or academic year

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**27 languages**

Opportunity to learn various languages

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**5.8+ million volumes**

Waseda University Library — Boasting one of the largest collections among private universities in Japan as well as more than 20 related facilities

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**85%** Percentage of classes with less than 50 students

Waseda University classes with a large number of students and the majority of lectures held in large classrooms are now a matter of the past. Classes attended by less than 20 students now make up 55% of all classes, with students and faculty members engaging in two-way communication.

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**Enrollment**

**48,724 people**  
Undergraduate Students

**Faculty**

**5,468 people**  
Graduate Students

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**From the World**

**To the World**

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Alumni
630,000 people

Alumni CEOs in Japan
10,606 people

Waseda Alumni who became Prime Minister
8th Shigenobu Okuma
17th Shigenobu Okuma
55th Tanzan Ishibashi
74th Noburu Takeshita
76th Toshiki Kaifu
84th Keizo Obuchi
85th Yoshiro Mori
91st Yasuo Fukuda
95th Yoshihiko Noda

Global corporations founded by Waseda Alumni
Sony
Samsung
Casio
LOTTE

Global corporations that have Waseda Alumni as CEO
All Nippon Airways Co., Ltd. (ANA)
Honda Motor Co., Ltd.
Nintendo Co., Ltd.
UNIQLO
Shiseido Company, Limited
Nomura Securities Co., Ltd.
Tokio Marine & Nichido Fire Insurance Co., Ltd.
Olympus Corporation

Global Leaders
Masaru Ibuka, founder of Sony Inc.
Hiroshi Yamauchi, President of Nintendo Co., Ltd.
Tadashi Yanai, founder of UNIQLO and numerous others

Representative Main Alumni

Presidents of World-leading Academic Societies

Tanaka Aiji
2016 International Political Science Association (IPSA), President

Kasahara Hironori
IEEE (Institute of Electrical and Electronics Engineers) Computer Society 2018, President

Fukuda Toshio
IEEE (Institute of Electrical and Electronics Engineers) Computer Society 2020, President

President
Vice-President
Adjunct Professor
Waseda University promotes original research that innovates the future, while at the same time applying its wealth of knowledge to the diverse fields that are its strength as a comprehensive university. In the latest world university ranking (Quacquarelli Symonds ranking), Waseda University ranked among the top 100 in the world in 10 research fields, demonstrating that Waseda University’s research capabilities are highly regarded around the world.

The following are examples of programs that Waseda University is promoting (or has promoted in the past):

**MEXT / Japan Science and Technology Agency (JST) / Japan Society for the Promotion of Science (JSPS) programs**
- Program to Establish Open Innovation Organizations / WISE Programs (Doctoral Program for World-leading Innovation: i-Smart Education - only private university selected during the first year of open bidding (FY2018))
- Program for Promoting the Enhancement of Research Universities / Top Global University Project, Type A / Top Tiers
- Program for Leading Graduate Schools / Exploration and Development of Global Entrepreneurship for NEXT generation (EDGE-NEXT) / Education Network for Practical Information Technologies (enPiT) / Doctoral program for Data-Related Innovation Expert (ID-BRIEVE) / Project for Sharing of Advanced Research Infrastructure / Joint Usage/Research Center program / The Strategic Research Centers Development (Super COE)
- Grants-in-Aid for Scientific Research / Core-to-Care Program (Advanced Research Networks)
- MEXT / New Energy and Industrial Technology Development Organization (NEDO) program
- Renewal of National Task Project / Project for Industrial Technology Research and Development Facilities

**QS Graduate Employability Rankings 2020**

Ranked No.1 among private universities in Japan for the third year running in the ranking that indicates how successful university’s graduates are. Ranked No.34 worldwide.

WASEDA’s Research Cap

Amount of funding received for joint research expenses with private companies and consigned research

Taking advantage of large-scale research and education programs implemented by government ministries and agencies, to transform into WASEDA that shines on the world stage.

The following are examples of programs that Waseda University is promoting (or has promoted in the past):

**Government Programs**
- Ministry of Education, Culture, Sports, Science and Technology (MEXT) / Japan Science and Technology Agency (JST) / Japan Society for the Promotion of Science (JSPS) programs
- Ministry of Health, Labor and Welfare (MHLW) / Japan Agency for Medical Research and Development (AMED)
- Ministry of the Environment (METI) / New Energy and Industrial Technology Development Organization (NEDO)
- Ministry of the Environment Research and Technology Development Fund
Ranked fourth among all research institutions in Japan (first among private universities)

Top among private universities in Japan

Ranked among top 100 in the world in 10 subjects

World University Rankings

Waseda University was highly rated in the QS World University Rankings 2020 (U.K.), ranked by research subject. Waseda also saw an improvement in the number of subjects ranked in global top 50.

Changes in amount of research funds received

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants-in-Aid for Scientific Research</td>
<td>2,794</td>
<td>2,773</td>
<td>2,867</td>
<td>2,800</td>
<td>2,894</td>
</tr>
<tr>
<td>Subsidies</td>
<td>2,838</td>
<td>1,809</td>
<td>1,118</td>
<td>1,532</td>
<td>1,259</td>
</tr>
<tr>
<td>Contract/Joint research (public)</td>
<td>3,375</td>
<td>4,128</td>
<td>4,070</td>
<td>4,078</td>
<td>4,301</td>
</tr>
<tr>
<td>Contract/Joint research (private)</td>
<td>1,408</td>
<td>1,511</td>
<td>1,619</td>
<td>1,677</td>
<td>1,986</td>
</tr>
<tr>
<td>Research grants *1</td>
<td>133</td>
<td>134</td>
<td>118</td>
<td>138</td>
<td>161</td>
</tr>
<tr>
<td>Designated donations *2</td>
<td>345</td>
<td>451</td>
<td>585</td>
<td>424</td>
<td>586</td>
</tr>
<tr>
<td>Total</td>
<td>10,893</td>
<td>10,806</td>
<td>10,378</td>
<td>10,648</td>
<td>11,187</td>
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</tbody>
</table>

Indirect expenditure

<table>
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<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants-in-Aid for Scientific Research</td>
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<tr>
<td>Contract/Joint research (public)</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Contract/Joint research (private)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research grants *1</td>
<td>14.6</td>
<td>15.6</td>
<td>16.8</td>
<td>17.0</td>
<td>19.1</td>
</tr>
<tr>
<td>Designated donations *2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

Projects adopted for Grants-in-Aid for Scientific Research

Number of projects adopted & national ranking

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of projects adopted</td>
<td>946</td>
<td>982</td>
<td>964</td>
<td>950</td>
<td>1,040</td>
</tr>
<tr>
<td>National ranking for number of projects adopted</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

Number of venture businesses established

Waseda ranks 1st among private universities for the fifth year running!

In the FY2018 Survey on University-Oriented Venture Businesses conducted by the Ministry of Economy, Trade and Industry (METI), Waseda University ranked first among private universities in Japan for the number of university-oriented venture businesses. This marked the fifth consecutive year that it has placed first, starting in FY2014. Waseda University has established the Incubation Promotion Office in our Research Innovation Center for nurturing venture businesses utilizing the research and academic output of students and faculties and providing support for the creation of innovation.

Representative alumni who are successful entrepreneurs

- Masaru Ibuka, founder of Sony
- Noritugu Hayakawa, founder of Tokyo Metro
- Isao Okawa, founder of GSK (now SEGA Holdings)
- Ataru Kobayashi, first President of the Japan Development Bank (now Development Bank of Japan)
- Tadashi Yanai, founder of Fast Retailing Co., Ltd. (UNIQLO)
- Taichi Murakami, founder of Livesense Inc.
- Shintaro Yamada, founder of Mercari, Inc.
- Kazuhiro Nishi, founder of ASCII Research Laboratories, Inc.
- Takahiro Hayashi, founder of HEROZ Co., Ltd.

For the Grants-in-Aid for Scientific Research (KAKENHI) offered by MEXT in FY2019, Waseda University ranked first in four out of 65 research fields (Language and Literature, Law, Politics, and Economics and Management).
To bolster Japanese opportunities against a background of declining child population and diminishing technical competitiveness, it is necessary to effectively utilize the originality of universities in jointly working with industry to create high added value products.

Waseda University aims to build the “Waseda Open Innovation Ecosystem.” This first stage will be attaining highly original research achievements through industry-academia collaborations. These will then be linked to the development of high added value products in industry. Part of the profits derived from these products will then be reinvested in next generation R&D and human resources training at the university. This in turn will be connected to the development of further high added value technologies, and the nurturing of human resources and intellectual properties that aptly reflect the needs of society. Some of these intellectual properties will then be utilized to acquire further research and development expenses via the growth of venture enterprises.

Specifically, it is intended to realize a total ecosystem that achieves the following:

- Seek active participation in government-academia collaborative research primarily from doctoral postgraduate students, those drivers of the future.
- Work on finding solutions to challenging issues that reflect the needs of society.
- Have industry utilize the obtained research achievements to develop high added value products endowed with unique, world-class performance and supply them to the world.
- Have some of the resulting profits reinvested in the university so that more high-level human resources and cutting-edge technologies can be created.
- Link some of the intellectual properties created or derived from these activities to university-oriented venture enterprises so that the profits can be invested into next generation research.
The Largest Industry-Academia Collaboration Event in the History of this University We Plan to Hold “Waseda Open Innovation Forum 2021: WOI’21”

This forum will bring together the industry, ventures, startups, researchers, engineers, and students who aim for the realization of Waseda’s Open Innovation Ecosystem and support the Waseda Open Innovation Valley Project. Participants will attend lectures given by the industrial leaders who drive innovation in Japan and overseas, participate in panel discussions on the themes of startups and ventures, and hold more than 100 booth exhibits that will include practical demonstrations of technology. The forum will present opportunities for the matching of industry-academia collaboration, leading to the creation and nurturing of new innovations based on cutting-edge technology seeds and the results of such collaborations.
In recent years, the use of ICT has expanded across all aspects of our lives, stimulating the fusion of everything and nurturing the soil that feeds new and unprecedented values and services. Waseda University captures this situation as a sign of the advent of a “Smart Society,” and had established the Advanced Collaborative Research Organization for Smart Society (ACROSS) as early as 2014, and continued with activities since then. This Research Organization perceives the support of basic scenarios in life such as housing, food, and labor, in a comfortable, healthy, secure and environmentally-friendly manner, as the universal essence of a “Smart Society.” Taking “innovation through integration” as its keywords, it aims to constantly drive the evolution of that concept in anticipation of the changing times and technological innovation.
Taking the lead in building common core technologies for a Smart Society

Executive Members of the Promotion Association for Smart Society Technology (PASS-T) (as of March 2019)

- Asahi Kasei Homes Corporation
- CHUBU Electric Power Co., Inc.
- East Japan Railway Company
- Hokkaido Electric Power Company
- Hokuriku Electric Power Company
- JXTG Nippon Oil & Energy Corporation
- KDDI Corporation
- Kyushu Electric Power Co., Inc.
- Mitsubishi Corporation
- Mitsui Fudosan Co., Ltd.
- Nomura Real Estate Holdings, Inc.
- NTT Group
- OYASHI CORPORATION
- Osaka Gas Co., Ltd.
- SEIKISUI CHEMICAL CO., LTD.
- SHOWA SHELL SEIKYU K. K.
- Sumitomo Forestry Co., Ltd.
- TAISEI CORPORATION
- Tohoku Electric Power Co., Inc.
- The Kansai Electric Power Co., Inc.
- Tokyo Electric Power Company Holdings, Inc.
- TOKYO GAS Co., Ltd.
- West Japan Railway Company
- ABB Bailey Japan Limited
- Ad-Sol Nisshin Corporation
- Azbil Corporation
- DAIHEN Corporation
- DAIKIN INDUSTRIES, LTD.
- DENSO CORPORATION
- FUJITSU LIMITED
- Hitachi, Ltd.
- Honda R&D Co., Ltd.
- ITOCHU Techno-Solutions Corporation
- Johnson Controls, K.K.
- KYOCERA Corporation
- MEIDENSHA CORPORATION
- Mitsubishi Electric Corporation
- Mitsubishi Motors Corporation
- Murata Manufacturing Co., Ltd.
- NEC Corporation
- NF Corporation
- NGK INSULATORS, LTD.
- NISSAN MOTOR CO., LTD.
- OMRON Corporation
- OSAKI ELECTRIC CO., LTD.
- Panasonic Corporation
- SANIX INCORPORATED
- Sumitomo Electric Industries, Ltd.
- TABUCHI ELECTRIC CO., LTD.
- TAKAOKA TOKO CO., LTD.
- TOSHIBA CORPORATION
- Yokogawa Electric Corporation

Members of the Study Group for Smart Society Technology (SGSS-T) (as of March 2019)

- 10 research institutes of Waseda University
  Mobilizing and integrating research and knowledge in all fields of study

Advanced Collaborative Research Organization for Smart Society

<table>
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<th>R&amp;D project Formulation/Operation</th>
<th>Fusion/Collaboration of technologies (International standardization of interface)</th>
<th>Support for the deployment and commercialization of R&amp;D technologies</th>
<th>Seminars/Personnel exchanges</th>
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Taking the lead in building common core technologies for a Smart Society
Research Promotion and Support System for Realizing Research

Research Innovation Center (RIC)

Waseda University, in June 2019, established the Research Innovation Center (RIC) as a university-wide research support organization. It aims to strengthen strategy formulation for industry-academia collaborations and expand one-stop services related to all university-wide promotion of research inquiries, from the point of entry to the point of exit. RIC is composed of four departments: 1) the “research strategy department”, which has research strategy formulation functions; 2) the “intellectual property and research collaboration support department” for supporting management of intellectual property and technology transfer; 3) the “incubation department”, which supports the creation of ventures; and 4) the “Open innovation promotion department”, which aims to establish the machinery for intensively managing large-scale joint research intrinsically related to corporate business strategies for engaging in “organization vs. organization” joint research by the university and companies under the MEXT Program for Development of Open Innovation Organizations (initiated in fiscal 2018). Deploying a specialist group of university research administrators (URA), coordinators, and other staff, it conducts multi-faceted and comprehensive support for research and collaboration both inside and outside of the university.

Research Enhancement Head Office

Waseda University was selected under the Ministry of Education, Culture, Sports, Science and Technology’s FY2013 “Program for Promoting the Enhancement of Research Universities” as a university with prospects for achieving significant global results by promoting world-class research and making efforts to improve research operations and environments according to international standards. Viewing this program as a focused and potent driver of Waseda Vision 150 initiatives, Waseda University has established a Research Enhancement Head Office, headed by the President of the University, as a body for implementing initiatives and promoting projects.

Research Promotion One-stop Inquiry Desk

A one-stop inquiry desk was opened on October 1, 2019 with the aim of gathering and responding to all inquiries related to the promotion of research, including promotion of research from entrance to exit across the entire university, industry-government-academia collaborations, utilization of intellectual property, transmission of research achievements, various support systems for researchers, and the procedures relating to such systems.

WasedaOneStopResearch@list.waseda.jp

https://waseda-research-portal.jp/inquiry/
Completion of the New Research and Development Building: Research Innovation Center (Building No. 121)

Waseda University completed a new research and development building, the “Research Innovation Center” (Building No. 121), in March 2020. It is intended to establish a research environment and support functions for advancing industry-academia collaboration in world-leading research. (Total cost approximately 10 billion yen, with six above ground floors, two basement floors, and total floor area of approximately 17,600 m²). In the Waseda Open Innovation Valley Project, in addition to this research and development building, we will promote development of the Green Computing System Research and Development Center, Smart Energy Systems Innovation Center, Technology Research Center, Energy Management System Shinjuku Demonstration Center, and other elements of a global open innovation environment linked with an interest research hub.

In addition to promoting field-based innovative activities for practicing industry-academia collaboration in world-leading research, the research and development building will also work on creating venture enterprises and new industrial sectors. It is also committed to realizing the creation of social value, which is the university’s third mission, following education and research.

Promotion of international joint research

Waseda University implements the “International Research Project Creation Support Programme” (hereafter, “Research Cluster Programme”) as one facet of exploring ways to strengthen collaboration with overseas research institutions. Our aim is to create new organizational international joint research projects that come not from the position of individual researchers but from the university as a whole.

In the Americas, we are proceeding with discussions with the University of California, San Diego, while in Europe, a strategic partnership for joint research with the University of Birmingham, UK, was agreed upon in 2016. The Research Cluster Programme with the University of Birmingham now provides support for joint research in fifteen disciplines, including Shakespearean studies, linguistics, robotics, atmospheric environmental science, and international labor movements. On November 28 and 29, 2018, the University of Birmingham Day was held at Waseda University for the presentation of the results of our joint research and to set the stage for the vitalization of future exchanges, and in fiscal 2019, collaboration with the University of Birmingham was deepened through holding various workshops and discussions between researchers. In addition to a Japan–UK international symposium titled “Adapting Shakespeare for the Stage Today,” researchers engaged in discussions and sought to achieve a deeper level of collaboration.

Going forward, the Brussels Office, opened in 2016, will also be utilized to strengthen research exchanges in disciplines spanning from humanities and social sciences to science and engineering.

Research and Education in Data Science

Waseda University founded the Center for Data Science in 2017. The center provides a platform that integrates the latest developments in data science with the knowledge built up across both science & engineering and the humanities by utilizing the full strength of our comprehensive private university. We aim to integrate and create new knowledge, develop human resources who can contribute to the resolution of complex, global social issues, and enhance the overall research capabilities of Waseda University. The Center will keep forming a large-scale network with both domestic and overseas universities and enterprises, and strive to disseminate practical education and state-of-the-art research through integration of data science and academic expertise as a global center for advanced research and education models.

Research outcomes concerning data analysis
- Validation of effectiveness of existing proposed methods
- Proposal of new models and methods
- New knowledge gained through data analysis

Research outcomes in specialized fields
- Use of the latest analysis methods
- Building new analytical models and methods
- Comparison with existing knowledge, and validation
- Validation of the relevance of the results obtained

Structure of the purposes of data usage
- What do you want to use the data for?
- What assertion do you want to make based on the data?

CONTACT
Center for Data Science
E-mail: cds-info@list.waseda.jp
URL: https://www.waseda.jp/inst/cds/

CONTACT
Research Innovation Center (RIC)
E-mail: WasedaOneStopResearch@list.waseda.jp
URL: https://waseda-research-portal.jp/inquiry/

CONTACT
International Research Promotion Initiative
E-mail: irp-staff@list.waseda.jp
Next-generation Core researchers

WASEDA Research Resources

Who are the key researchers of the next generation?

Waseda University implements the “next-generation key researcher training program” and selects researchers with potential to lead Waseda’s research capabilities in the next generation. Waseda provides organizational support, such as concentrated research assistance and a suitable environment. This program is one of the initiatives for realizing “improvement of a group presence” under the theme of organization of research of the Ministry of Education, Culture, Sports, Science and Technology’s “Program for Promoting the Enhancement of Research Universities.” It also seeks to promote team-based research led by young and mid-level researchers in accordance with the core strategy item “promote innovative research and strengthen international dissemination capabilities” in Waseda Vision 150.

Waseda has selected 14 researchers thus far who are promoting global top-level research.

Contributing to a Recycling-oriented Society through Highly Sophisticated Separation Technology

Chiharu Tokoro

Professor, Faculty of Science and Engineering

Completed her Doctor of Engineering at the University of Tokyo School of Engineering in 2003. Became an assistant in the Waseda University Faculty of Science and Engineering in 2004; was appointed as a full-time lecturer in 2007; became an associate professor in 2009, and assumed her current position in 2015. She has been director of the Office for Promotion of Equality and Diversity since 2018. She has also concurrently served as a project professor at the Institute of Industrial Science, the University of Tokyo since 2016. Her fields of specialty are resource recycling engineering, chemical engineering, and powder technology.

URL http://www.tokoro.env.waseda.ac.jp/

Noda Nanotube Project

Produce and Use Nanotubes As We Like

Suguru Noda

Professor, Faculty of Science and Engineering

Suguru Noda received his bachelor’s degree in Chemical Engineering from The University of Tokyo in 1994 and his Ph.D in Chemical System Engineering from The University of Tokyo in 1999. He then worked as an assistant professor and an associate professor at The University of Tokyo until he joined Waseda University as a full professor at the Department of Applied Chemistry in 2012. He concurrently served as a JST PRESTO researcher between 2009 and 2013. He is a chemical engineer focusing on material processes and energy devices.

URL http://www.f.waseda.jp/noda/index-e.html
Development of Humanoid Robots for Multiple tasks by Deep Learning

Ogata Deep Cognitive System Project

Tetsuya Ogata
Professor,
Faculty of Science and Engineering

Tetsuya Ogata received B.S, M.S and D.E degree in mechanical engineering from Waseda University in 1993, 1995, 2000 respectively. He was a Research Scientist at the RIKEN Brain Science Institute, Lecturer and Associate Professor with the Graduate School of Informatics, Kyoto University, and Researcher under the Japan Science and Technology Agency's PRESTO (Precursory Research for Embryonic Science and Technology) program. He took up his present position in 2012. From 2017, he is a Joint-appointed Fellow with the Artificial Intelligence Research Center, National Institute of Advanced Industrial Science and Technology, Tokyo.

URL http://ogata-lab.jp/ja/

Deep learning technology is applied to robot systems with the concept of "developmental cognitive robotics". We create a future of human-robots collaboration.

Research into the Impact of the Implicit Process on Cognitive Behavior

Watanabe Implicit Information Project

Katsumi Watanabe
Professor,
Faculty of Science and Engineering

Katsumi Watanabe graduated the University of Tokyo, Department of Psychology in 1995; graduated the University of Tokyo, Department of Life Sciences, where he obtained an MA in Cognitive Science, in 1997, and obtained a PhD in Computation and Neural Systems at the California Institute of Technology in 2001. In 2007, he became an Associate Professor at the Research Center for Advanced Science and Technology, University of Tokyo, and he assumed his current position in 2015.

URL http://www.fennel.sci.waseda.ac.jp/

We scientifically investigate subconscious information and processing, which have a major impact on human cognition, decision-making and behavior. We work using both laboratory experiments and field experiments.

Developing Computational Methods Applicable to a Wide Range of Mechanical Engineering Problems

Takizawa Fluid-Structure Interaction Project

Kenji Takizawa
Professor,
Faculty of Science and Engineering

Kenji Takizawa After graduating from the Department of Mechano-Aerospace Engineering at the Tokyo Institute of Technology in 2001, Takizawa continued to obtain his doctoral (Science) degree at the same university in 2005, in the Interdisciplinary Graduate School of Science and Engineering. After research positions at the National Maritime Research Institute and Rice University in Houston, he worked as an Associate Professor in 2001 at the Waseda Institute for Advanced Study (WIAS). He also worked as an Associate Professor in the Faculty of Science and Engineering at Waseda University before reaching his current position in 2018.

URL http://www.jp.tafsm.org/

Focuses on fluid-structure interaction, in which fluids and structures produce mutually-dependent complex physical phenomena, with applications ranging from biomechanics, such as heart physiology, to a diverse set of industrial applications.
Research on the Formation of Public Opinion and Voting Behavior based on Social Media Analyses

The research theme is electoral analysis through cross-national comparison. Currently studying the role that social media trends play in molding public opinion and voting behavior, based on case studies of various countries.

After graduating from the School of Political Science and Economics at Waseda University in 1998, he completed the Master's program at the Graduate School of Political Science, also at Waseda University, in 2000. In 2006, he completed the doctoral program in the Department of Government at the University of Essex and received his Ph.D. (in Government). He has carried out research at the Instituut voor Sociaal en Politiek Opiniononderzoek (ISPO) in Belgium, among other academic appointments. In 2010, he was appointed Associate Professor at the Faculty of Political Science and Economics, Waseda University, and took up his current position in 2014.

URL: https://goo.gl/7dK8sJ

Airo Hino
Professor,
Faculty of Political Science and Economics

Empirical Study of the Effects and Challenges of Environmental and Energy Policies

Empirical analysis of the effects and challenges of price policies and non-price policies for promoting environmental conservation. Recommends environmental and energy policies based on evidence.

Graduated from the Department of Arts and Sciences, College of Arts and Sciences of the University of Tokyo in 1992, completed the Master's Program in Environmental Sciences at the Graduate School of Life and Environmental Sciences of the University of Tsukuba in 1994, and completed the University of Minnesota Graduate School (U.S.) with a Ph.D. in Economics in 2000. Previous appointments include Visiting Associate Professor as Abe Fellow at George Mason University (U.S.) and Professor at the Department of Economics, Sophia University, before taking up the present position from April 2012.

URL: http://www.f.waseda.jp/arimura/

Toshi H. Arimura
Professor,
Faculty of Political Science and Economics

Investigating the Mobilities of People in the Global Labor Market

This project involves international collaborative research on cross-border movements of migrants with different skill levels. It aims to understand human mobilities in an age of globalization and contribute to policy making.

Liu-Farrer obtained a BA in English from Fudan University (1993), MA and Ph.D. in Sociology from the University of Chicago (2007). She joined the Graduate School of Asia-Pacific Studies, Waseda University in 2009, and became Professor in 2014. Prior to her career at Waseda, she was an assistant professor at Ochanomizu University and visiting professor at the Institute for the Study of Global Issues, Hitotsubashi University. She received the Waseda Research Award in FY2014.

URL: https://www.waseda.jp/gsaps/about/faculty/liu-farrer-gracia/

Gracia Liu-Farrer
Professor,
Faculty of International Research & Education
Building a New Reaction System Utilizing Surface Ionic Conduction

This research seeks to develop an entirely new high-efficiency catalytic process, which does not rely on past catalyst reaction mechanisms, employing low-temperature surface ionic conduction and spin conduction.

Completed a doctorate of engineering course and obtained a Ph.D. (Engineering) at the University of Tokyo Graduate School, School of Engineering, Department of Applied Chemistry in 1998. Working as a research associate at the University of Tokyo Graduate School, School of Engineering, Department of Applied Chemistry, as a research associate at Waseda University, Faculty of Science and Engineering, Department of Applied Chemistry, and as an associate professor of the Department of Applied Chemistry at Waseda University prior to his current position since 2012. Also serving as a JST fellow since 2011.

http://www.f.waseda.jp/ysekine/

Yasushi Sekine
Professor,
Faculty of Science and Engineering

Taking on Technology Issues Aimed At Realizing an IoT World

This research addresses issues related to design, security, and application needed to build an “IoT world” that connects all things to networks.

Completed a Ph.D. (Electrical Engineering) at the Department of Electronics and Communication Engineering, Graduate School of Science and Engineering, Waseda University in 1997. Worked as a research associate at the Department of Electronics and Communication Engineering at Waseda University, an associate professor at the Department of Information and Media Sciences at the University of Kitakyushu, and an associate professor at the Department of Computer Science and Engineering at Waseda University prior to assuming his current position in 2009.

His specialties are integrated circuit design and applied technology.

http://www.togawa.cs.waseda.ac.jp/

Nozomu Togawa
Professor,
Faculty of Science and Engineering

Theoretically and Empirically Analyzes Corporate and Non-Market Strategies

This research covers corporate and non-market strategies and team creativity themes that have been attracting interest in international management in recent years. It hopes to raise awareness in society.

Graduated with a masters in Economics from Keio University, worked for Mitsubishi Research Institute, and obtained a Ph.D. in Management at the University of Pittsburgh (US) in 2008. He served as an assistant professor at business school of State University of New York, Buffalo before assuming his current position in 2013.

https://www.waseda.jp/fcom/wbs/other/1047

Akie Iriyama
Professor,
Faculty of Commerce
Iwata Body/Mind Awakening RT Project

**New Initiatives in Human Assistive Robotics Technology**

This research aims to establish foundation technology for robot technology that expands human capabilities and sensory and movement functionality and improve conditions facing seniors and people with disabilities and enhance QOL.

Completed a Ph.D. (Mechanical Engineering) at Department of Mechanical Engineering, Graduate School of Science and Engineering, Waseda University in 2002. Served as a lecturer for the Graduate School of Science and Engineering at Waseda University, an Associate Professor at the Consolidated Research Institute for Advanced Science and Medical Care at Waseda University, and an Associate Professor at the Faculty of Science and Engineering at Waseda University before assuming his current position in 2014. His research themes are rehabilitation assistance systems and remote medical RT.

URL: [http://jubi-party.jp/](http://jubi-party.jp/)

**Hiroyasu Iwata**
Professor,
Faculty of Science and Engineering

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Kataoka High-Precision Radiation Imaging Project

**Developing a High-Precision Radiation Imaging Sensor**

This research is driving high-energy astrophysics via an international research project and contributing broadly to society with development of a revolutionary radiation imaging sensor.

Graduated from the Department of Physics, Faculty of Science & Graduate School of Science at the University of Tokyo in 1995 and completed a doctoral course and Ph.D. (Physics) at the Graduate School of Science at the University of Tokyo in 2000. Served as an assistant professor at the Graduate School of Science and Engineering at the Tokyo Institute of Technology and as an associate professor at the Graduate School of Advanced Science and Engineering at Waseda University before assuming his current position in 2014. His specialties are gamma ray astrophysics and radiation applied physics.

URL: [http://www.spexg-lab.phys.waseda.ac.jp/](http://www.spexg-lab.phys.waseda.ac.jp/)

**Jun Kataoka**
Professor,
Faculty of Science and Engineering

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Toeda Reimagine Japanese Literature and Culture Project

**Reimagining Japanese Literature and Culture in the World**

Prof. Toeda promotes individual and collaborative research on Japanese literature and culture while conversing with leading researchers around the world. He also trains young researchers who are expected to play prominent roles in this field.

Toeda completed his Ph.D. (Literature) at Waseda University, Graduate School of Letters, Arts and Sciences in 1993. He then worked as a lecturer at Otsuma Women’s University and an associate professor in School of Humanities and Social Sciences at Waseda University before reaching his current position in 2003. His specialties are Japanese modern literature and culture. His research themes are Modernist Literature, Media Censorship and Literature, Film and Literature, and Tokyo and Literature. He won the Utsubo Kubota Prize in 1984.

URL: [https://researchmap.jp/read0182137](https://researchmap.jp/read0182137)

**Hirokazu Toeda**
Professor,
Faculty of Letters, Arts and Sciences
Role of Networks in Economic Growth

This research examines how social and economic networks drive economic development and growth through diffusion of knowledge and information. The project utilizes a wide variety of data, including big data for global supply chains and small data for local networks among rural households in developing countries.

Received a B.A. from the University of Tokyo in 1991 and a Ph.D. in economics from Stanford University in 2000. He was a professor and the department head at the Department of International Studies, Graduate School of Frontier Sciences, the University of Tokyo and has occupied the current position since 2014.

URL http://www.f.waseda.jp/yastodo/

Yasuyuki Todo
Professor, Faculty of Political Science and Economics

Comprehensive Research on Human Muscle Characteristics and their Plasticity

This research focuses on human skeletal muscle and tendon architecture, function, and quality. Research is expected to clarify the mechanism of human movement in sports as well as daily activities, and to lead to development of the effective training modality.

Graduated from the University of Tokyo, Faculty of Education (Physical and Health Education Department) in 1988, and received a masters degree (Exercise Physiology) in 1990 and a Ph.D.(Education) in 1995 from the Graduate School of Education, the University of Tokyo. Appointed as a research associate in the University of Tokyo in 1991, associate professor at the University of Tokyo in 1999, then moved to Waseda University as an associate professor in 2003 prior to starting his current job in 2005. His specialties are biomechanics, exercise physiology, and skeletal muscle mechanics.

URL http://www.kurumizaka.sci.waseda.ac.jp/

Yasuo Kawakami
Professor, Faculty of Sport Sciences

Structural Basis of the Chromatin Dynamics

Chromatin accommodates genome DNA in the nucleus. The project clarifies the epigenetic gene control mechanism by chromatin structure and dynamics.

Graduated from Tokyo College of Pharmacy in 1989, and is a licensed pharmacist, completed his Ph.D. at the Graduate School of Science and Engineering, Saitama University in 1995. He worked as a postdoctoral fellow at the National Institutes of Health (NIH, USA), a research scientist at RIKEN, Associate Professor at (then) School of Science and Engineering, and Professor at the Faculty of Science and Engineering of Waseda University. Appointed Professor Emeritus at Waseda University and Professor at the Institute for Quantitative Biosciences of the University of Tokyo since 2018. His specialties are structural biology, molecular biology, and biochemistry.

URL http://www.kurumizaka.sci.waseda.ac.jp/

Hitoshi Kurumizaka
Professor Emeritus, Waseda University
Establishing Systems for Recycling without Increasing Environmental Load

Professor Chiharu Tokoro of the School of Creative Science and Engineering, who conducts research in such areas as elimination of harmful substances from wastewater and effective utilization of urban mines, aims to treat and recycle the various products made in human production activities using systems that incur minimal environmental load. Targeting lithium ion batteries, solar panels, and WEEEs, for which recycling needs are expected to continue to increase, she has been successful in recovering valuable resources using combined physical and chemical separation technologies. In this project, she aims to establish technology for easily separating raw materials from products and the condensing of such materials, eventually aiming to promote systems allowing the manufacture of products that are also easy to recycle.

Promoting Recycling through Separation Technology that combines High Accuracy with Low Environmental Load

There is an urgent need to change from the current resource consuming society to a resource recycling society, but one of the factors hindering this change is the shortage of product reuse and recycling technologies. We currently depend on chemical separation technologies that carry a high environmental load to accurately recover valuable resources from products. As a result, although valuable elements are recycled, items that have low value as elements are disposed of, even if they originate from high-value materials. I aim to promote transition to a resource recycling society through establishing flexible reuse and recycling systems. One example is to combine material separation technologies that have relatively low environmental load with chemical separation technologies, allowing for the accurate separation of various raw materials from products and the processing of them so that the greatest degree of function is retained as possible. Meanwhile, manufacturers are increasingly using multi-materials, which combine together various types of materials, to achieve greater product lightness and strength. In future, not only will it be necessary to develop separation technologies for such materials that are difficult to separate, but systems for manufacturing products on the premise of easy separation will also be required. We have therefore been interviewing companies engaged in recycling to ascertain needs on the frontlines, and we refer to our findings in conducting research and actively disclosing information with a view to promoting the use of separation technologies.

Unravelling Principles of Separation Technologies in Anticipation of Higher Efficiency

Our laboratory has already succeeded in separating components from such items as the electronic substrates of mobile phones, cobalt and aluminum from lithium ion batteries, and the recovery of glass from solar panels through technologies that finely control compressive force, impact force, shearing force, and other forces. This project also aims to innovate recycling technology using a new electric pulse method that we have developed in the lab. The electric pulse method, which is characterized by enhanced accuracy and selectivity based on control of electrode location, voltage, and current according to the products being separated, realizes a higher recovery rate than the aforementioned separation technologies in the case of lithium ion batteries. Since this can appropriately separate cobalt particles from aluminum foil, it is also expected to improve recycling efficiency. The stumbling block in the past to such research has been the difficulty of using and generally applying separation technologies commensurate with materials and products. This project now makes it possible to capture and analyze electric pulse phenomena that occur in nanoseconds and microseconds. If we can make further progress in unravelling the operating principles, we will be able to both improve efficiency and realize application to other materials, as well as making progress in research geared to simulating the results. I am very excited about the future of our research.
Creating Materials with Various Functions Using Nanotubes as a Common Platform

In the field of chemical engineering, an area responsible for making materials and products that will benefit society, Prof. Suguru Noda of the School of Advanced Science and Engineering is developing practical production methods of functional nanomaterials using abundant chemical elements. As opposed to the conventional approach focusing on the functions of individual nanotubes, he takes a unique approach to create composite materials endowed with diverse functionality by holding various guest materials within the nanotube matrix. This project aims to establish a new platform for materials by using two types of nanotubes that are electrically conductive/insulative while also endowed with the contradictory features of high flexibility and thermal stability.

Practical and Customized Production of CNTs for Individual Applications

He hopes to make society more sustainable by realizing various functions using abundant chemical elements instead of consuming various chemical elements. Carbon nanotubes (CNTs), which are cylinders of carbon with diameter of a few nanometers, can be used for various applications including integrated circuits, flexible devices, solar cells, rechargeable batteries, and lightweight electric cables. However, different specs (diameter, wall number, length, crystallinity) are demanded for different applications, thus it is essential to produce CNTs in customized manners. He has developed various processes including fluidized-bed production of long and pure CNTs at high yield, gas-phase production of highly crystalline CNTs, and on-substrate production of morphologically controlled CNT structures. He is conducting joint projects with industries to put them into practical use in several years.

Nanotube-Based Rechargeable Batteries

Secondary batteries are essential for electrically powering transportations (ex. automobiles and aircrafts) and expanding the use of renewable electricity. Battery electrodes are made by coating active materials, conductive fillers, and binders on metal foils, and CNTs are now used as a conductive filler. Interestingly, long and thin CNTs can form self-supporting, inter-woven, sponge-like films. He is currently developing light weight electrodes and secondary batteries with high energy density by capturing the active materials in the CNT sponges.

Combining Conductive CNTs with Insulative BNNTs

Boron nitride nanotubes (BNNT) possess a cylindrical nanostructure similar to that of CNTs but its other features such as its lack of color and insulative features are the opposite to the black and conductive CNTs. By holding various materials within conductive CNT and insulative BNNT sponges, a diverse range of functions could be realized. For example, it is highly demanded to connect the interface between solids that often regulates the device performance, therefore he is developing thermal interface materials and anisotropic conductive films by holding thermally or electrically conductive materials within nanotube sponges. He has also created a nanotube matrix with alternating electrically conductive and insulative layers, and realized battery electrodes and separator that are stable at 500℃. This will contribute to the enhancement of the safety of lithium ion batteries, the solution to the huge heat generation in rapid charge-discharge and large-scale systems, and high-temperature operations in extreme environments such as space.

Developing Practical Production Methods of BNNTs

The combination of CNTs and BNNTs opens up new paths for more diverse applications. However, BNNTs are expensive due to the research and development that is ~20 years behind CNTs. There are many inexpensive gaseous sources for carbon that are easy to handle, but such sources are yet to be found for boron. He has recently succeeded in synthesizing BNNT from an inexpensive, easy-to-handle boron source and are working on their practical production.

Concurrently with research and development, he has also started assessing the potential impacts and effects of such technologies and products when they are used in society in the future. Even if products are made from abundant chemical elements, it will be counterproductive if higher environmental loads are caused in the stages of production, distribution, and disposal. He aims to realize a society supported with renewable energy and recycled materials through collaboration with people in diverse sectors including academia, industry and government.
Subconscious Information and Processing Impact Cognitive Behavior

We scientifically investigate the ways in which various kinds of factors influence human cognition, decision making, and behavioral processes. We use such techniques as experimental psychology, cognitive science, and neuroscience. Prof. Katsumi Watanabe of the School of Fundamental Science and Engineering has elucidated that the implicit (subconscious) process has a major impact on these areas, and he is currently researching those relations with surrounding people that individuals are not aware of. In this project, he is advancing clarification through both laboratory experiments and field experiments targeting various subjects, including the mental state of sports athletes, links between players, and the relationship between the support of spectators and athletic performance.

Recording and decoding the mental state of athletes

Humans rapidly process information gathered via their five senses and conduct behavior based on the cognition and decision-making derived from this data. The subconscious information and processing of which people are not even aware has a major impact on this process, and my laboratory is working on the scientific elucidation of this. In research into the manifested and implicit processes in facial and physical expressions, we evaluate the faces that people find attractive by focusing on not only the memories and impressions of subjects but also by measuring subconscious processes such as eye movement, electrodermal activity, and brain waves. We have found that even when a subject is hesitating on the conscious level, often their eye line is focused only on the face that they will eventually choose, and we have made progress in investigating the universality and diversity of facial attraction based on intercultural comparison.

The theme of the project is also to clarify the relationship between the mental state and performance of athletes. In our research so far, we have constructed a method for estimating said mental state from biological signals, and we have numerically expressed mental impact with the cooperation of a baseball team formed for the purpose of measurement. We intend to utilize this to also research relations with surrounding people, linkage between players, and mental states when athletes sense a good connection with another player on a specific day.

Research that will also Contribute to Mental Stability in Everyday Life

The cheering of spectators imparts power to sports players. To scientifically verify this theory, we aim to conduct laboratory experiments and verification in actual games in relation to the connection between cheering and athletic performance. First, in the experimental environment, we want to evaluate how performance is impacted by continuous praise and continuous criticism, and also investigate cerebral functions and other factors through such elements as measuring brain waves. At the same time, we will advance development of a technique for estimating physical and mental condition based on such factors as physical movements and body surface temperature, acquired through image analysis without having to attach measurement devices to the body. Even with the emergence of sophisticated measurement devices and image analysis technologies, the knowledge and know-how of psychologists is essential for linking the results of such technologies to specific mental conditions.

I chose to target sports because it is possible to measure mental and physical movements during competition, and to clearly evaluate the mental impact based on victory or defeat and the final result. However, measurement technology that can be used in such challenging conditions can also easily be applied to everyday life, making it possible to clarify lifestyles that engender mental stability based on measurement data of physical and mental states. In the future, we aim to realize utilization in a wide variety of other fields, including medical care, caregiving, school education, and human resources in the workplace.
Cluster of research organizations engaged in the most advanced research in the world

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Research institutes and centers that contribute to solving complex social issues across all generations

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Research and educational organizations and overseas bases which support a Waseda that shines on the world stage

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Museums that attract attention worldwide

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Pursuit of “smart capabilities” seeks broad inroads by ICT in society, expanded social interest in energy and the environment, and overall optimization through elimination of waste and improved efficiency. Today’s world is truly moving toward a smarter society. The targeted smart society must not only provide shelter and food, as basic needs, to individuals, but also allow for activity, offer comfortable, healthy, and safe conditions, and be friendly to the environment.

The Advanced Collaborative Research Organization for Smart Society (ACROSS) is addressing five smart domains (smart homes, condominiums and buildings, smart health support, smart mobility, smart food, and smart grid) through ten research groups in order to create an ideal vision of a smart society and drive its realization at the cutting edge of efforts. It aims for a society that is organically linked via information and energy services. Furthermore, it hopes to deliver excellent results requested by society through “provision of university knowledge”, “planning and proposing joint projects”, and “fostering interaction among people” and formation of a venue that help technology to blossom aided by interaction of people.

Automobile powertrain research site for development of innovative engine technology

Research on automobile engines and catalysts has a very long history at Waseda University, beginning in the Department of Modern Mechanical Engineering (School of Creative Science and Engineering) and Department of Applied Chemistry (School of Advanced Science and Engineering), and has received a high reputation.

The university held a central role in R&D work on clean diesel engines attracting interest in Europe and other major markets in 2014 through consignments from the Research Association of Automotive Internal Combustion Engines (AICE) of various projects in the “Research and Development Project for the Advancement of Clean Diesel Engine Technology” of METI. Additionally, it was selected as an academic research site for “Innovative Combustion Technology” under the Cabinet Office – JST Strategic Innovation Promotion Program (SIP). Waseda University launched the Research Organization for Next Generation Vehicles in 2014 as a research site that mainly handles these two initiatives and aids a smooth transition to next generation vehicles while maintaining and advancing international competitiveness in cutting-edge internal combustion and catalyst development areas at the heart of automobiles.

Since its formation, our talented researchers are cooperating to achieve smooth progress with the projects, and the university has proposed a new model for mechanical engineering R&D system. Additionally, the university is targeting cultivation of human resources who are capable of functioning in industry or academia and use of research results in industry, administration, and other social systems by promoting practical research.
Organization for Regional and Inter-regional Studies

The Organization for Regional and Inter-regional Studies (ORIS) was established in April 2015, integrating the Waseda Organization for Asian Studies, the Waseda Organization for Japan-US Studies, and the Waseda Organization for European Studies. Restructuring these three former organizations into the Asian Research Unit, American Research Unit, and European Research Unit, and adding the newly established African Research Unit group, it aims to seek a shared order and to propose solutions to issues in different regions.

Under the theme "the inter-regional relationships and possible co-existence between nations in Asia, North and South America, Europe, Africa, and the Middle East", ORIS runs two core research projects.

One project examines how historical processes have formed separate regional [socio-political] orders. The other project aims to create a shared order for some areas, and to explore the applicability of this new innovation in other areas under the current context of accelerating globalization.

Our aims:
Formation of an active intellectual platform for transdisciplinary regional and inter-regional studies from the perspectives of Asia / Discovery, and creation and education of the "Global Common Knowledge"; and delivery of feedback to the societies / Formation of the forum for academic-practitioner exchange, and provision of new opportunities for young researchers / Contribution to the Waseda academic community as an effective international research wing of the university.

Research Organizations

Pursuing development of robots that co-exist with people

Co-existence of human beings and robots is an everlasting theme of robotics researchers. The Organization implements research on themes of disaster response (Institute for Disaster Response Robotics), healthcare (Institute for Healthcare Robotics), and co-creation (Institute for Human Robot Co-Creation) with the goal of forming a research site that promotes peaceful utilization of robots in order to realize a truly prosperous human society.

Waseda’s robotics research does not restrict itself to industrial robots and aims to create original robots with the concept of “human beings”. For manufacturing activities, we exploit knowhow related to computer, electric circuit, and machinery materials and designs as well as knowledge about medical, psychology, and other areas.

Waseda University established an education research site targeting global top-class “co-existence of people and robot technology” with catalysts from the 21st Century COE Program, Global COE Program, and other initiatives in order to enable advances in robot technology to become a “genuine intellectual social foundation” ahead of the world. It is cultivating many young people with “break-through capabilities” through a variety of unique programs and has formed a global top-class RT educational research site.

Future Robotics Organization

Type: Research Council
Year established: 2015
Website: https://www.waseda.jp/inst/fro/

▲ Octopus disaster response robot

Developing Mechanisms for Reconciliation and Coexistence between Regions

The Organization for Regional and Inter-regional Studies (ORIS) was established in April 2015, integrating the Waseda Organization for Asian Studies, the Waseda Organization for Japan-US Studies, and the Waseda Organization for European Studies. Restructuring these three former organizations into the Asian Research Unit, American Research Unit, and European Research Unit, and adding the newly established African Research Unit group, it aims to seek a shared order and to propose solutions to issues in different regions.

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Research Organization for Nano & Life Innovation

Type: Research Council
Year established: 2015
Website: https://www.waseda.jp/inst/nanolife/

▲ Experiment taking place in NTRC's clean room

Seeking Waseda-style innovation with nanotechnology

The Organization, which brings together researchers who produced results at the Institute for Nanoscience & Nanotechnology and Consolidated Research Institute for Advanced Science and Medical Care (ASMeW) and is equipped with cutting-edge equipment, promotes backcasting-type R&D for global issues through seven Project Research Institutes, more than 20 large public research projects, and a wide range of joint and consignment research with domestic and overseas companies.

The Nanotechnology Research Center, along with the Smart Energy System Innovation Center, gives researchers and students a high-level research environment, including three clean rooms (with a 100-class room), chemistry experiment rooms, and nano-order processing, measurement, and evaluation equipment as part of MEXT’s Nanotechnology Platform (NPF) initiative. The Organization is promoting interaction and human resource cultivation for young researchers and engineers via agreements with major university research institutes, the Nanotechnology Forum (NFM), an industry, academia, and government collaboration body, and others, and dissemination of information to society.
The Organization seeks to establish a research support system within the university to generate innovation from the university’s industry and academia collaborative efforts and realize their social implementation. Through these efforts, it aims to fully participate in the acceleration of solving problems in modern society and the creation of value to build a new industrial society, which is the aim of industry and academia collaborations at the university going forward.

In order to innovate and realize social implementation, it is necessary to break from the traditional framework and develop organization–organization collaboration, in other words, university–business collaborations. This necessitates assigning complicated tasks to specialized human resources and developing an environment where researchers can devote themselves to their research activities.

By having the vice president of the university serve as the Organization’s director along with a deputy director who has corporate executive experience and inviting seasoned business professionals with experience in corporate activities and legal and intellectual property experts, the Organization aims to strategically build a system to support the management of research activities as a university. It is the Organization’s mission to spread the experience and knowledge gained through its activities throughout the university, and it will strive to involve many researchers within the university to further enhance its research capabilities and ability to contribute to society.

Research Organizations

Interdisciplinary research site advancing through collaboration

Waseda University launched the Project Research Institute in April 2000 with the aim of fostering advanced research that contributes to development and welfare of human society by quickly catching up with the requirements of the society and period and using a multifaceted approach that covers a variety of academic disciplines. Project Research Institutes bring together many different people based on the five themes of “create a social structure for the future”, “support cultural heritage and development”, “make contributions to the future of regional communities”, “explore new methods for teaching and learning” and “pursue cutting-edge technology.” Without limitations on the faculty or research field (arts or sciences), a team of at least four dedicated teachers is formed and defines research topics and promotes free, flexible research activities for a fixed period utilizing research participation fees paid by participating researchers and external funds. Researchers from other schools participate too as research members, thereby enabling the formation of a global research organization led by Waseda University. The Comprehensive Research Organization oversees the management of a diverse lineup of project research institutes, thereby playing a major role as a research center that leverages the research efforts of all of the school’s faculty and researchers and promotes research activities based on social collaboration.

Moreover, from FY2020, we are also operating a project research institute for implementing the research issues in Research Initiatives deployed as university-wide team research, aiming to form a hub for manifesting Waseda’s “strengths” as concrete cutting-edge research. As part of the reorganization of priority field research institutes that have conventionally conducted research in Research Initiatives, and the reorganization accompanying the effective utilization of research organizations, the university conducts effective research management through systematic assessment and progress management by project managers while supporting a wide range of activities through the implementation of research topics by project research institutes. By promoting research initiatives, the university stimulates further research, including the cultivation of human resources. We aim to solidify autonomous, sustainable research operations by acquiring new external research funds and collaborating with external organizations, and to share research results broadly with society to help resolve the abovementioned issues and contribute to the realization of a better society.
A core research organization for research on politics, economics, and journalism

The Waseda Institute of Political Economy, established in 1978, carries out academic research and analysis on issues confronting modern society, and engages in activities with the aim of providing meaningful policy recommendations with a view to society in the future. It has also inherited a tradition of contributing greatly to the world of mass communication and journalism and the relevant research. Since its establishment, it has also been involved in analysis and research of modern problems in these fields from the perspectives of politics and economics.

In recent years, it has deepened its collaboration with other research institutes, and expanded its scope to include interdisciplinary research on the environment, energy, medicine, and development, the building of Sustainability Science, comprehensive research on the EU, gathering of materials from the post-war era, and systematic historical research of post-war history. In addition to deepening and developing research in such related fields, it is also putting effort into enhancing support for young researchers with the aim of further contributing to improving Waseda’s research system and international research capabilities, as well as nurturing researchers.

Forty years have passed since its establishment. With the aim of becoming a core hub for political economic research not only in Waseda University but also in Japan, the Waseda Institute of Political Economy is collaborating with the Center for Positive Political Economy under the auspices of the Top Global University Project, and is taking up a variety of research challenges more than ever before.

Conceptualizing a legal system that corrects the unevenness of globalization through the three layers of “global,” “region,” and “country”

The Institute of Comparative Law was established in 1958 with the aim of contributing to the comparative research of legal systems in Japan and other countries, and to the research and education of legal studies in Japan. Since then, it has strived to systematically gather and maintain a collection of materials on legal systems in Japan and other countries. The scale of its collection of magazines on laws, case studies, and other subjects related to law is one of the greatest in Japan. Today, in tandem with the development of legal systems that are unique to Japan, it is also engaged in spreading Japanese law worldwide, and uncovering and questioning important issues in contemporary legal studies.

The Institute of Comparative Law organizes symposiums with leading guest researchers in all areas of legal studies from around the world, as well as other events. In addition, members of the Institute have established 23 joint research projects and are actively engaged in research on comparative law. “Promoting the Study of Law and Sustainability” has been positioned as an Institute-wide research project that reflects on the realities of social life after the modern times based on the premise of economic growth, including dwindling natural resources, the destruction of the earth’s environment, and excesses in production and labor. It seeks to make the transition to a sustainable society with a view to future generations, and examines the role of laws and legal studies that adjust while striking a balance between the three elements of economy, society, and environment.

The Institute of Comparative Law disseminates its research output through the publication of the periodicals Comparative Law Review, Comparative Law Study Series, and the Waseda Bulletin of Comparative Law in print format, and the ad-hoc online publications Topics of Japanese Law, Online Journal, and Online Forum.

Fostering excellent legal experts through research and continuous education

The Center for Professional Legal Education and Research (CPLER) fosters excellent legal experts and operates three divisions (research, education, and collaboration with external parties) with the aim of contributing to advancement of a society based on rule of law. Primary activities are 1) theoretical and applied research on legal practice, 2) practical education in Waseda Law School and career assistance for law school graduates, 3) advanced specialty education for legal experts, and 4) fostering collaboration through provision of legal information service to university graduates in the legal profession.

Additionally, it published the No. 1 issue of the Waseda Law School Journal, a legal magazine that focuses on being a bridge between theory and practice, in FY2016. Waseda hopes that the journal will serve as a way of sharing educational and research results accumulated under the law school program with society and disclosing research results of young jurists who complete law school.

It also launched a Law Recurrent Course (continuous education course) in FY2016. This program offers a new cutting-edge realistic curriculum primarily for jurists who completed law school for the purpose of providing sustainable, continuous support after students have become legal professionals. Please refer to the center’s website for details.
Advancing the frontier of humanities research

The Research Institute for Letters, Arts and Sciences (also known as RILAS) is a center established in the Faculty of Letters, Arts and Sciences, Waseda University, which has promoted humanities research for more than 120 years, with a mission of “passing down accumulated knowledge of humanities and cultural sciences to the future generations, and addressing and seeking answers to the issues facing humanity.”

The important characteristic of the research activities at RILAS is that it not only fosters individual researchers to pursue deeper knowledge in the fields of specialization, but also promotes joint researches that advance collaboration and integration of various research themes. RILAS is currently conducting a wide range of research efforts with 15 interdisciplinary research groups as its core.

Besides the research activities of individual researchers, RILAS has four major initiatives: cultivation of young researchers through collaboration with graduate school education, acceptance of researchers from overseas, promotion of international research interaction, including lecture events and symposia, and acceptance of funded research and joint research in response to the social requests. RILAS intends to continue pursuing a variety of research projects as a pioneer in humanities research while collaborating with many researchers at the university and from outside. The outcomes of these various research institute members are published in the online journal WASEDA RILAS JOURNAL. Please take a look at the open website of the journal.

Comprehensively studies contemporary issues based on an understanding of inherent educational value

Tough questions are being asked about the true value of education in modern society with steady advances in information access and internationalization and a mix of diverse value systems. It is important to grasp contemporary educational issues broadly with an advanced and interdisciplinary perspective and engage in initiatives related to specific implementation of education for tomorrow.

The institute started as the Laboratory for Advanced Studies in Education in the Faculty of Education in April 1986 and was reorganized as the Institute for Advanced Studies in Education on a university-wide scale in September 1998. Roughly 30 years have passed since the establishment of the research group. The Institute intends to carry on the legacy of past results and pursue effective research that addresses contemporary issues.

The Institute’s main activities are holding lecture events, symposiums, and seminars, arranging and assisting public placement research, and editing and issuing periodicals (Institute Bulletin, Waseda Review of Education, Waseda Education Monographs, Waseda Education Booklets). These publications and research announcements disclose the results from publicly funded research.

The Institute President and Vice President, management committee members, operating committee members (general affairs committee and editing committee), and secretariat collaborate and cooperate in running the Institute. The Institute hopes to attract active participation from people in the education field and those with interest in education.

Research of cutting-edge industry management issues from various perspectives

In the 45 years since its establishment in 1974, the Waseda University Research Institute of Business Administration has taken on the role of a research institution that connects the industrial and academic worlds, and has been engaged in research on cutting-edge issues broadly related to industry management from various perspectives.

Today, the Research Institute, led by faculty members from Waseda University’s School of Commerce and Graduate School of Accountancy, together with many guest researchers from outside the university, has research subcommittees corresponding to the respective research themes, and promotes academic research on a daily basis.

In addition to promoting research internally, it is also actively engaged in disseminating research output, giving back to society, and collaborating with the field of education, in order to fulfill its mission of contributing to the real world through academic output generated in its research activities. These efforts include publishing its own journals, organizing research seminars and lectures, organizing forums and symposiums, and undertaking commissioned research and training projects from external organizations.

Recently, it has also taken up new and different challenges, including organizing forums in local regions, symposiums organized jointly with international academic societies, lecture series, and educational programs commissioned by overseas affiliate schools and corporations.

Going forward, the Research Institute will continue to take on new challenges in order to promote research in the field of industry management, and to contribute to society.
Institute for Business and Finance

Waseda University Institute for Business and Finance was launched on September 1, 2017 through the integration of the Center for Finance Research and WBS Research Center.

By engaging in basic and applied research with a focus on business and finance, it fulfills its role as a core research institute for business and finance. At the same time, it aims to nurture professionals with an advanced level of specialized knowledge who are able to give back to society through their research output, and to contribute widely to the development of human society.

As an institute that is positioned at the core of executive education, the Institute for Business and Finance works as one with the Waseda Business School, the educational division for MBA, to develop education and training programs aimed at fostering management professionals who will become leaders of next generation.

By integrating the education and research systems of this Institute and WBS, it aims to produce and disseminate world-class research output through basic and applied research in the fields of business and finance, and give back extensively to the education sector as well as society.

Waseda Research Institute for Science and Engineering

Largest science and engineering research organization at the university

Since its establishment in 1940, the organization and name of the Waseda Research Institute for Science and Engineering, which had started out as the Science and Engineering School Research Laboratory, have changed with the times. However, the philosophy behind its activities has remained unchanged—to collaborate with society to carry out research on the basics and applications of science and engineering, including interdisciplinary research, as well as to develop and expand this research, in order to contribute to the development of science and technology and the welfare of humankind.

Research activities are undertaken by close to 1,000 researchers affiliated to the Research Institute, from within and outside Waseda University. The external funds received by the Institute through commissioned and joint research, amongst other sources, makes up about half of the total amount of funds received by the university as a whole. Hence, the Waseda Research Institute for Science and Engineering is a core part of the university’s research activities. The number of research projects carried out in collaboration with various external organizations, reaches about 80 projects that extend across four departments—bio science, environment, science, and technology. In addition to a wide range of research support activities aimed at publicizing the research output and actively giving back to society, such as support for organizing lectures and introducing the activities of the Research Institute through publications, it also supports and nurtures young researchers through initiatives such as the Early Bird Program.

The Research Institute designated seven priority research areas in FY2018 and established the Waseda Earth Regeneration School (WERS), with the aim of further developing science and engineering research in Waseda University.

Kagami Memorial Research Institute for Materials Science and Technology

The first laboratory affiliated with a department of science and engineering of a private university in Japan

In 1938, the Kagami Memorial Research Institute for Materials Science and Technology was established with the name of Casting Research Laboratory, as the first laboratory affiliated with a department of science and engineering of a private university in Japan. The Casting Research Laboratory was a research center for cast metal, which was a base material to support the development of heavy industries such as shipbuilding, in pursuit of an important national policy at that time in Japan. In 1988, on the 50th anniversary of its founding, the Casting Research Laboratory was renamed the Kagami Memorial Research Institute for Materials Science and Technology and has since researched a wide variety of materials.

In regard to the organizational hierarchy of the university, in 2006, the laboratory changed its affiliation from Waseda University to become a cluster laboratory of the Waseda Research Institute for Science and Engineering. Then, in 2017, the Kagami Memorial Research Institute for Materials Science was separated from the Waseda Research Institute for Science and Engineering and became affiliated with Waseda University’s Faculty of Science and Engineering. On April 1, 2018, the research institute was approved by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) to operate as a Joint Usage/Research Center called the Joint Research Center for Environmentally Conscious Technologies in Materials Science. The research institute has just made the first step towards a research institution that will be open not only to Waseda University but also to all of Japan. We intend to work hard to help develop Japan’s materials research in collaboration with other Joint Usage/Research Centers for materials science throughout Japan.
Contributing to the realization of an affluent, safe, and secure future society

Highly advanced information and communications systems are used widely in communication between human beings, and utilized in the areas of security, medicine and welfare, transportation, energy distribution and social infrastructure. They have contributed to the realization of a rich society. On the other hand, the globalization of society that has progressed against the backdrop of this development of information and communications systems, has generated new forms of disparity (information disparity). Some have pointed out that this information disparity, when tied in with the problem of economic disparity, environmental issues, and issues related to resources, food and population, is gradually becoming one of the destabilizing factors of society. In order to build an affluent, safe, and secure society in the future, we not only have to strive to advance information and communications systems as well as improve their reliability, but also have to put effort into resolving the various issues surrounding information and communications. The Global Information and Telecommunication Institute collaborates with all industries, and also with universities and research institutes from around the world, Japanese research institutes, and government ministries and agencies, to nurture researchers who can contribute to society through information and communications technology, with the aim of establishing an advanced information and communications infrastructure in a wide range of cross-disciplinary academic and practical fields.

Practical approach to the environment through initiatives with industry, academia, government, and citizen efforts

This research institute was founded in 2002 to seek solutions to increasingly complex environmental problems on a global scale. It conducts R&D aimed at solving problems with a multidisciplinary approach and makes the fullest use of the overall capabilities of Waseda University. It also actively promotes a practical approach of validating R&D results with the “3G’s,” namely the field (genba), original (genbutsu) and reality (genryuu). While advances in science and technology have vastly improved our lives in material ways, high-volume consumption of resources and energy through various social and economic activities is causing a variety of environment and resource problems. Many mutually contradictory challenges exist in the current world. It is very important to address these issues with diverse perspectives, including a spatial approach that extends from the areas where we live (nature, cities, farming and fishing villages, forests, and mountainous areas) to the entire country, Asia and the world, a temporal approach of past, present, and future related to environmental issues, and an approach related to diverse industries, social and economic systems, and legal systems and policies as well as traditions, cultures, and lifestyles. Cumulative negative legacy might become irreparable unless problems are resolved collaboratively by fully studying issues, sharing future goals and plans, and leveraging the stances and attributes of industry, academia, and government plus related citizen groups. The Institute collaborates with researchers and various entities at Waseda University and outside the university and implements practical research aimed at making contributions to society.

Disseminating information as a global-level research site with industrial, government, and academic collaboration from Kitakyushu, a city with manufacturing roots

This research center (IPSRRC) engages in a broad range of activities with the Graduate School of Information, Production and Systems from education research to local and social contributions, including support for knowledge advancement in automotive and semiconductor industries concentrated in northern Kyushu, joint research and project participation with domestic and overseas research entities and companies, provision of science and engineering learning opportunities to middle and high school students, and holding open classes and technology seminars. The International collaboration Symposium on Information, Production and Systems, which is held once a year, attracts about 150 people from Japan and other countries. This is a major event for announcements of joint research results and the latest technology and research trends in presentations and posters and provision of a forum for inter-disciplinary interaction by participants.

The Kitakyushu Science and Research Park, which brings together the IPSRC, IPS, three universities, and companies, focuses on automobiles as a core area and forms a global-level research site with industrial, government, and academic collaboration that serves as a "partner graduate school" for learning about car electronics and car robotics from corporate engineers who are active on the front line of business as teachers and conducts field tests for next-generation transportation, including validation tests for unmanned driving.
Waseda University's Faculty of Social Sciences launched the Institute for Advanced Social Sciences in 2016 to organize and drive interdisciplinary, international, and application-oriented research in the social sciences and to apply research findings to education. The principle of our research is based on the following three goals.

- **Integration** of the social sciences by recognizing the complexity and diversity of society and studying it as a whole.
- **Interdisciplinarity** of the social sciences by uniting boundaries across fields through the incorporation of the development of the humanities and sciences.
- **Application** of the social sciences by generating findings on subjects that require immediate response through emphasis on research activity that directly engages social problems.

This research institute is made up of the Division of Global Issues and the Division of Social Design. These two divisions are linked with the two majors of the Graduate School of Social Sciences with a view to realizing educational collaboration between the two organizations. Its research activities involve conducting research in project research groups that follow the time periods established for each division, and publishing the social science academic journal, Waseda Review of Socio-Science. This research output is disseminated through the website of the Institute.

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**Institute for Advanced Social Sciences**

Interdisciplinary, international, and application-oriented research site for social sciences

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**Advanced Research Center for Human Sciences**

Comprehensive scientific research on various human problems from the standpoint of human development

This research center was established with the purpose of contributing to healthy, happy human lives and active social lives through harmonization of people, society, and nature as well as orderly advances and scientific, comprehensive research into various issues related to human existence and behavior.

The research center conducts three types of research projects that have been carefully selected as an initiative to realize this aim. It promotes research on a variety of themes with the three project types – planning and preparation projects that assist preparations for acquiring large competitive research funds, large research assistance projects that support more efficient handling of acquired large-scale competitive research funds, and general research projects that freely define issues.

Additionally, it collaborates with research institutions at the university and outside the university, extensively accepts invited researchers, collaborative research, and consignment research, and builds operations to pursue multifaceted research. These activities lead to formation of a community of researchers.

Results from research conducted by this research center should continue to contribute to resolving many difficult issues facing modern society educating and supporting young researchers who are the future and sharing results broadly with society.

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**Institute for Sport Sciences**

Strengthening society and enhancing people’s lives through sports

The Waseda Institute for Sport Sciences was established in September 2006 to promote research into sport in such disciplines as the humanities, pedagogy, business, medicine, kinesiology, and coaching, and to make the results of this research widely available.

The Institute aspires to a high level of research while collaborating closely with the educational and research activities of the Graduate School of Sport Sciences and the undergraduate School of Sport Sciences. The Institute conducts research and disseminates the results, holds research meetings and lecture events, and serves as a liaison for research between faculty members and external bodies. The results of these activities are openly available both inside and outside the university.

The importance of living an active life is steadily increasing as the population ages. There are also growing expectations for the sport sciences to provide scientific support for athletes ahead of the 2020 Tokyo Olympic and Paralympic Games. In these times of change and opportunity, this Institute strives for an even stronger vibrancy to achieve its mission of enhancing people’s lives and the general welfare.
The Asia-Pacific region currently accounts for at least 50% of the global economy. While people have become physically more prosperous thanks to economic advances, many issues severely affect living, such as poverty, the environment, and security. These problems no longer stay within individual nations and are international issues in a globalized society with active movement of people, goods, money, and information across borders.

The Waseda University Institute of Asia-Pacific Studies engages in interdisciplinary research from global and regional perspectives to address these issues with dedicated faculty who focus on research on three areas (Area Studies, International Relations, and International Development/Policy Studies). The dedicated faculty create research groups within the center and actively disclose research results to the outside world via the Journal of Asia-Pacific Studies. The Institute also handles research projects with consignment research funds, donations, and supplemental funds from outside the university. It puts emphasis on formation of research networks through collaboration with universities, research entities, and companies located in Japan and other countries. The Institute strives to disseminate research results to other countries by arranging international collaborative research and holding international symposiums. It plays an important role in the promotion of international research activities in the Asia-Pacific region.

Promotion of interdisciplinary research for various issues in the fastgrowing Asia-Pacific region
Other Research Organizations

Center for Data Science

Creating New Knowledge through Integration of Data Science and Academic Expertise

Alongside the rapid development of information processing technology and communications technology, it has become possible to handle a great variety and large volume of data. For this reason, data science is becoming ever more important. Data science is an integrated science discipling that seeks to obtain new knowledge from data and apply it to decision-making, and it has become necessary in all areas of study and research, be it science and engineering or humanities and social sciences. Furthermore, by combining the “theory” with “validation through data” that have been accumulated in the respective specialized fields to date, there are expectations for the emergence of new and unprecedented academic disciplines and research.

This Center maximizes Waseda’s strengths as a private university to provide a platform that aims to fuse the latest data science with knowledge gained in specialized fields in the areas of science and engineering as well as humanities and social sciences. By doing so, it aims to create integrated and new forms of knowledge, nurture human resources who are able to solve problems in a complex and global society, as well as enhance the research capability of the university as a whole. It will also put effort into establishing large-scale networks with universities and corporations in Japan and abroad, and as a hub for advanced research and education models from around the world, work toward spreading practical education and advanced research.

Please visit the website for more details.

Waseda Institute for Advanced Study (WIAS)

Research platform for promising researchers’ great leap forward into the world

WIAS was established with the aim of enhancing quality and international profile of the research activities of Waseda University by nurturing promising young researchers. WIAS accepts researchers from across the world, irrespective of nationality or research area. They are provided with good research environment in which they can concentrate on their research activities.

WIAS researchers are working on respective research themes in humanities, social sciences, natural sciences or interdisciplinary areas. WIAS researchers are expected to acquire various competitive research funds, disseminate their research results through papers and presentations at academic conferences, host WIAS monthly workshops and run seminars. WIAS offers various exchange opportunities for researchers such as periodical progress report meeting in WIAS or joint seminars in collaboration with other organizations. Through these activities, researchers can go beyond their specific research area and work with other researchers in more dynamic ways.

They also have chances to engage in educational activities in Waseda University. After working for some years at WIAS, they generally obtain full-time positions at Universities or research institutes. WIAS also invites distinguished researchers from abroad so that they can interact with faculty and young researchers of Waseda University. WIAS is reinforcing the alliance with institutes for advanced studies based on universities around the world to further enhance the research standards of WIAS as well as that of Waseda University.

Center for Japanese Language

One of Japan’s largest providers of Japanese education, and a place for practicing advanced theories of Japanese language education

The Center for Japanese Language conducts Japanese courses for more than 5,000 international students in the school, and approximately half of the total number of international students in the school are now attending Japanese courses. The Center also operates unique Japanese Language Programs that last for both one year and half a year, and Short-term Japanese Programs that last for three and six weeks. International students from around the world are accepted into these programs. Another feature of the C.JL is that it is open to overseas researchers and overseas faculty, not only Waseda’s own international students. The C.JL also works with the Graduate School of Japanese Applied Linguistics and functions as a place for practicing advanced theories of Japanese language education.

The Center also implements theoretical and practical research projects related to Japanese language education, offers research groups, and conducts various research activities with the aim of enhancing the Japanese language and Japanese language education. Additionally, the Center publishes the Bulletin “Waseda Practical Studies in Japanese Language Education” annually to share its Japanese language education activities inside and outside the university and to contribute the improvement of the language education.
A hub that promotes next-generation collaboration between medicine, and science and engineering, with the aim of realizing advanced medical treatment

Waseda University and Tokyo Women’s Medical University have been cooperating in areas such as artificial heart development and biometrics since more than 50 years ago, and have engaged in joint research of medicine, and science and engineering. Furthermore, with the aim of engaging in research in the fields of life science and biomedical engineering systematically in both universities, the Tokyo Women’s Medical University – Waseda University Joint Institution for Advanced Biomedical Sciences (TWIns) was established in 2008 as a collaborative facility with Tokyo Women’s Medical University, and the two universities established the Center for Advanced Biomedical Sciences at the same time. Faculty members, researchers, clinicians, and students from both universities participate in the research exchange seminar, which has become an established tradition between the universities. Through oral presentations and more than 80 poster presentations, they engage in lively discussions at the seminar.

Health and welfare for humankind is a major theme. It is highly desirable to introduce cutting-edge technology such as nano-systems, image information transmission technology, biomaterials, and AI for the prevention, diagnosis, and treatment of diseases, and to realize advanced technology. However, in order to achieve that, it is vital to deepen and develop fields such as life science and biomedical science through the fusion of medicine and medical treatment with science and engineering. The areas of research that TWIns is engaged in span a wide range of disciplines, including life science, medicine, science and engineering, and biology, making it the ideal environment for generating new academic disciplines. TWIns is a hub that promotes next-generation collaboration between medicine, and science and engineering, with the aim of realizing advanced medical treatment.

San Francisco Office / Brussels Office

Waseda University concludes agreements with leading academic institutions overseas, and based on these agreements, we develop student and researcher exchange programs with the support of our fifteen overseas offices. In particular, our offices in North America and Europe carry out activities that facilitate the development of international research collaborations with our overseas partners.

The San Francisco Office (opened in 2012) undertakes a wide range of activities, including supporting the University's educational and research activities in North America as well as developing Waseda’s network of contacts. Together with the Center for Research Strategy and the Research Promotion Division, the San Francisco Office works to build and strengthen networks between Waseda and research universities and institutions in the US while also supporting Waseda students and researchers in the area for research or study purposes.

The Waseda Brussels Office (opened in 2016) was created to improve Waseda’s international recognition in Europe as well as to promote international joint research. As the de facto capital of the European Union, Brussels plays a central role in networking and information sharing across numerous fields, including in education and research, and this role will continue to grow in importance in the future. Through the Brussels Office, Waseda is able to build and strengthen our relationships with European partners in industry, academia and government, and through research workshops and events like the Waseda Brussels Conference that provide a venue to present and discuss topics of mutual interest and concern, the Brussels Office encourages European institutions to seek out Waseda as a partner for international collaboration.
The only comprehensive museum in Asia dedicated to theater — A Symbol of “Theater-Oriented Culture in Waseda”

The Tsubouchi Memorial Theatre Museum is a museum dedicated to theater and film, holding collections of materials related to theater and film from Japan and countries around the world. Its collections, numbering more than a million items, are open to the public through exhibitions, publications including the annual bulletin called enpakubook, and databases. The Theatre Museum began building a digital archive in the early days of digital era. “Digital Archives Collection,” its comprehensive research database for theater and film, allows the public access to the information of museum collections, widely ranging from ukiyo-e prints, scripts and programs of kabuki and joruri plays, stage photographs, and to materials of contemporary theatrical performances. Of these, the collection of ukiyo-e prints of kabuki actors is the largest in the world. Including the project of converting items such as Noh masks into three-dimensional digital images, the Theatre Museum has been committing to structuring archives for future generations. Furthermore, since FY2009, the Museum’s Collaborative Research Center for Theater and Film Arts has also been accredited by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) as a Joint Usage/Research Center, carrying out a number of themed and public research projects. Successfully leading research in theater and film, it has been selected as a MEXT project for the strengthening of functions from FY2016–FY2018. It has also collaborated with outstanding research institutes in the field of theater both in Japan and abroad to promote international joint research, making possible activities such as international symposiums. Lastly, the Theatre Museum works closely with neighboring communities to promote regional culture through its contribution to the popularization of theater and film culture. The museum’s library too provides the public free access to rare collections of books, scenarios, and scripts that benefitted visitors not only for academic research but in many other areas.

Open university museum with valuable cultural materials

Yaichi Aizu (1881–1956), who was not only an Eastern art history researcher but also a poet and writer, stressed the importance of direct contact with works in art history research and education and referred to this as “practical learning.” He collected just over 4,000 items, including Chinese ceramics, mirrors, and gasen, purchased with his own funds for use in student education and research. These items form the Yaichi Aizu collection and are an important component of the Museum’s collection. The Museum also has archeological materials from excavations conducted prior to the war, donated modern art works, and materials on the Aizu people from the Yoshio Tosabayashi collection. Its materials are unique and valuable cultural assets of Waseda University. Since opening the Museum in 1998, it has received various donations from friends of the university, including the Shigenori Tomioka collection, the Uchiyama collection, the Kantaro Nobuhara collection, the Hattori collection, the Ono collection, and the Kosai Ando collection. The Museum’s collection has expanded to about 20,000 items. The Museum items are permanently exhibited. The Museum aims to be a site for use in research and education at the university and from outside the university and to offer opportunities to have contact with the university’s knowledge-filled historical items.

The Waseda International House of Literature — A “House of Literature” where Everybody can Gather

In June 2019, Waseda University established the Waseda International House of Literature (the Haruki Murakami Library) and embarked on initiatives geared to globally researching and transmitting literature, and promoting international exchanges based on Murakami’s writings. This project is a revolutionary undertaking that came about thanks to Mr. Murakami’s donation to the university of his original drafts and related materials for his novels, letters, interview articles, literary reviews, a huge volume of literature that has been translated overseas, tens of thousands of items from his record collection, and more. The Waseda International House of Literature will be located in Building No. 4 adjacent to the Tsubouchi Memorial Theatre Museum, with which Mr. Murakami has strong associations. The building will undergo bold renovation by the architect Mr. Kengo Kuma and is scheduled for completion as Waseda International House of Literature April 2021. Preparations continue apace for the opening of the Waseda International House of Literature, which is arousing interest among researchers and readers in Japan and overseas.
Establishment of Rules and Other Provisions Related to Academic Research Ethics

Waseda University has established the Waseda University Academic Research Ethics Charter to articulate the desired ethical behavior and to set out a code of conduct for all concerned with research activities at the University. Waseda University has created its “Guidelines Regarding Academic Research Ethics” to serve as a guideline for compliance with the Academic Research Ethics Charter, and to articulate in detail the responsibilities of the university and its researchers. Waseda University, in its “Rules for Preventive Measures against Research Misconduct and the Investigation Procedures”, stipulates the university’s stance on the prevention of misconduct regarding research activities and misconduct regarding the handling of research funds, and on the treatment of cases of misconduct.

The Academic Research Ethical Review Committee

Waseda University has established the Academic Research Ethical Review Committee, based on Waseda’s Rules for Preventive Measures against Research Misconduct and the Investigation Procedures. The Committee works to prevent misconduct and takes action in response to cases of misconduct.

Review System for Research and Experiments

Waseda University has established a system for the review of ethics related to research plans, and of experiment plans, so as to protect research subjects, and to set rules to ensure fairness and reliability in research.

Conflict of Interest Management

Waseda University has established its “Regulations for Conflict of Interest Management Regarding Public Research Funds” as well as the Conflict of Interest Management Committee pursuant to those regulations. Conflict of Interest management is carried out by the Committee.

Waseda University Research Ethics Measures

Waseda University has put in place relevant rules and implemented relevant measures to ensure that all researchers and other personnel who are involved in academic research recognize the great influence that research activities have on society, and carry out research activities faithfully in accordance with their own good conscience.