OSAKA UNIVERSITY
PROSPECTUS 2010
Osaka University traces its beginnings to the Edo Period, to the foundation of Tekijuku in Osaka in 1838. Reaching further back, scientific and educational development in Osaka was enhanced by the establishment of Kaitokudo in 1724 by five local merchants. Osaka University takes pride and inspiration from these two educational institutions, not founded by Japanese feudal lords, but by local citizens. Both Tekijuku and Kaitokudo pursued scientific truth and knowledge while cultivating virtue and socio-cultural awareness in students. Today Osaka University once again recalls its original spirit and prepares to develop it in the modern day.

Osaka University, “an institution open to society,” has a responsibility to society and will fulfill it with the following three mission statements based on the University’s motto “Live Locally, Grow Globally.”

Create a greater international presence by promoting advanced research, derived from both basic and emergent approaches. Strive to always secure society’s trust by closely cooperating with both government and industry in tackling contemporary social issues and problems.

Commit to specialized and disciplined education, while ensuring an education that fosters broader perspectives and comprehensive understanding from the undergraduate through to the graduate levels. Create an education system capable of nurturing scholars and professionals with the capacity to make sound social judgments.

Actively carry on the role of mediator and communicator of diverse cultures as an institution of global caliber possessing a strong foothold in the local community.
These three missions will be kept in the hearts of those who support the University and will be carried out by staff, students, and graduates.

The following is the University’s master plan as of 2008. As the University collectively works towards fulfilling these measures, a comprehensive philosophy and a mode of action which we call “Osaka University Style” will be acknowledged. Through such efforts, Osaka University will become a model of excellence in education, research, collaboration with industry, community outreach, and management for universities across the nation. It will build a featured style of activities and operations that is unique. Thus, the pride and identity of being a member of Osaka University will be born and consolidated.

Research

Strongly focus on research that is basic, exciting, and responsible. Respect fundamental studies while striving to open a new scientific era with groundbreaking research and fulfill its responsibilities by confronting the difficulties that modern day society faces.

Demonstrate the highest level of vitality in research and raise Osaka University’s international presence as a world-class institution through active cooperation with domestic and overseas scientific institutions, industries, and public bodies.

Education

Strengthen the liberal arts education for junior- and senior-year undergraduate students and promote minor programs for graduate students that integrate graduate courses and specialty fields. Train future scholars and professionals not only in highly specialized fields of study but also in comprehensive knowledge to enable them to make positive social judgments. Cultivate the ability to comprehensively deal with problems and their solutions through the development of Comprehensive Understanding (the ability to make sound social judgments with broad perspectives), Synthetic Imagination (the free play of imagination and the ability to create a network linking people from different fields and social standings), and Transcultural Communicability (the ability to communicate with and understand people from various backgrounds and cultures), and through the incorporation of on-site field work in curricula.
University-Industry Collaboration

Design appropriate organizations and facilities to realize "Industry on Campus," a base for the creation of new industries through the collaboration between the University and industry.

University-Community Collaboration

Fulfill the University's social responsibility as a community-based institution by promoting various cultural and educational activities with citizen groups and NPOs as well as programs of corporate-social responsibility through Osaka University's "Kaitokudo for the 21st Century."

International Exchange

Strengthen education to cultivate global knowledge and sensibility. Based on the successful merger of Osaka University and the former Osaka University of Foreign Studies, undertake bold educational reform to raise the foreign language proficiency of students and promote their participation in study-abroad programs. Promote further the internationalization of the campuses by providing international researchers and students with support appropriate to their research, study, and daily life and by training staff to deepen their international perspective.

Campus

Develop campuses of "diversity," "sustainability," and possessing a pleasant atmosphere that students will remember long after graduation. Contribute further to the cultural and industrial development of Osaka by making the University's Nakanoshima Center the fourth campus of the University and a base for university-industry and university-community collaboration as well as for adult life-long education.

Publicity and Finance

Implement effective public relations activities that are both targeted at the business community and civil society and that are user-friendly in order to generate stronger support that will contribute to the advancement of the research, education, and social outreach programs of the University. Systematically promote fundraising activities to establish a sound financial base for the University’s teaching, research, and collaboration activities.
Establish these measures above in relation to teaching, research, and collaboration with industry and community as the “Osaka University Style,” in the hope that this Osaka University Style may become a role model for universities all across the nation. Through active participation in this establishment by the faculty, staff, and students, the pride of being “a member of Osaka University” or “an Osaka University student” will certainly be fostered.

November 25, 2008
Campuses

Toyonaka Campus

Suita Campus

Minoh Campus

Nakanoshima Center
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1724</td>
<td>Establishment of the Kaitokudo (懷徳堂) (School of General Education)</td>
</tr>
<tr>
<td>1838</td>
<td>Establishment of the Tekijuku (適塾) (School of Dutch Studies in the Edo Period)</td>
</tr>
<tr>
<td>1869</td>
<td>Establishment of the hospital supervised by the Ministry of Education (Presently, MEXT)</td>
</tr>
<tr>
<td>1880</td>
<td>Establishment of the Osaka Prefecture Medical School and the Osaka Prefecture Hospital</td>
</tr>
<tr>
<td>1896</td>
<td>Establishment of the Osaka Industrial School</td>
</tr>
<tr>
<td>1915</td>
<td>Establishment of the Osaka Prefecture University Hospital</td>
</tr>
<tr>
<td>1931</td>
<td>Establishment of the Osaka Imperial University</td>
</tr>
<tr>
<td>1949</td>
<td>Establishment of Osaka University (new system)</td>
</tr>
<tr>
<td>2004</td>
<td>Becoming “National University Corporation”</td>
</tr>
<tr>
<td>2007</td>
<td>Merger with Osaka University of Foreign Studies</td>
</tr>
</tbody>
</table>
### Organization

#### Undergraduate Schools
- Letters
- Human Sciences
- Foreing Studies
- Law
- Economics
- Science
- Medicine
- Dentistry
- Pharmaceutical Sciences
- Engineering
- Engineering Science

#### Graduate Schools
- Letters
- Human Sciences
- Law and Politics
- Economics
- Science
- Medicine
- Dentistry
- Pharmaceutical Sciences
- Engineering
- Engineering Science
- Language and Culture
- International Public Policy
- Information Science and Technology
- Frontier Biosciences
- Law School
- United Graduate School of Child Development

#### Research Institutes
- Research Institute for Microbial Diseases
- Institute of Scientific and Industrial Research
- Institute for Protein Research
- Institute of Social and Economic Research
- Joining and Welding Research Institute

#### Joint - Use Facilities
- Low Temperature Center
- Research Center for Ultra-High Voltage Electron Microscopy
- Radioisotope Research Center
- Research Center for Environmental Preservation
- International Student Center
- International Center for Biotechnology
- Center for Quantum Science and Technology under Extreme Conditions
Research Center for Solar Energy Chemistry
Museum of Osaka University
Institute for Higher Education Research and Practice
Center for Advanced Science and Innovation
Health Care Center
The Center for Advanced Medical Engineering and Informatics
Center for the Study of Communication-Design
Center for the Study of Finance and Insurance
Renovation Center of Instruments for Science Education and Technology
Global Collaboration Center
Research Institute for World Languages
Center for Japanese Language and Culture
Sustainability Design Center
Institute for NanoScience Design

National Joint-Use Facilities
- Research Center for Nuclear Physics
- Cybermedia Center
- Institute of Laser Engineering

University Libraries
- Main Library
- Life Sciences Library
- Science and Engineering Library
- International Studies Library

Hospitals
- Osaka University Hospital
- Osaka University Dental Hospital

World Premier International Research Center
- Immunology Frontier Research Center

Center for Interdisciplinary Research and Education

Kaitokudo for the 21st Century

Supervisory Office for Overseas Centers for Education and Research
- San Francisco Center for Education and Research
- Groningen Center for Education and Research
- Bangkok Center for Education and Research

Osaka University Nakanoshima Center

(as of May 1, 2009)
## Facts & Figures

### Number of Students

<table>
<thead>
<tr>
<th>Students</th>
<th>Undergraduate</th>
<th>Graduate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular</td>
<td>15,937 (245)</td>
<td>4,513 (393)</td>
<td>23,793 (1,059)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,343 (421)</td>
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<tr>
<td>Non-Regular Students</td>
<td></td>
<td></td>
<td>1,073 (396)</td>
</tr>
<tr>
<td>Ground Total</td>
<td></td>
<td></td>
<td>24,866 (1,455)</td>
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( ) international Students

### Number of Staff

<table>
<thead>
<tr>
<th>Staff Category</th>
<th>Full-Time Staff</th>
<th>Non-Academic</th>
<th>Part-Time Staff and Others</th>
<th>Ground Total</th>
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</thead>
<tbody>
<tr>
<td>Academic</td>
<td>Professor 886</td>
<td>Administrative Staff 967</td>
<td></td>
<td>3,062</td>
</tr>
<tr>
<td></td>
<td>Associate Professor 826</td>
<td>Technical Staff 285</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Associate Professor (Lecturer) 184</td>
<td>Medical Staff 1,152</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Others 1,166</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Non-Academic</td>
<td></td>
<td></td>
<td>2,404</td>
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<tr>
<td></td>
<td>Administrative Staff 967</td>
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<tr>
<td></td>
<td>Technical Staff 285</td>
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<td></td>
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<tr>
<td></td>
<td>Medical Staff 1,152</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>Part-Time Staff and Others</td>
<td></td>
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<td>3,244</td>
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<tr>
<td></td>
<td>Ground Total</td>
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<td>8,710</td>
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(as of May 1, 2009)
### Revenue

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Management Expense Grants</td>
<td>50,366</td>
</tr>
<tr>
<td>Facility Maintenance Expenses</td>
<td>4,969</td>
</tr>
<tr>
<td>Revenue from Government Grants and Other Funding</td>
<td>6,879</td>
</tr>
<tr>
<td><strong>Independent Revenue</strong></td>
<td></td>
</tr>
<tr>
<td>Tuition/Enrollment/Application Fees Revenue</td>
<td>13,552</td>
</tr>
<tr>
<td>Osaka University Hospital Revenue</td>
<td>28,687</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>2,495</td>
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<tr>
<td><strong>University-Industry Cooperative Research Revenue</strong></td>
<td>14,653</td>
</tr>
<tr>
<td>Others</td>
<td>6,518</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>128,119</td>
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</table>

### Expenditure

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Administrative Affairs Expenses</td>
<td></td>
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<tr>
<td>Education and Research Expenses</td>
<td>55,632</td>
</tr>
<tr>
<td>Hospital Examination Expenses</td>
<td>26,351</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>81,983</td>
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<tr>
<td>General Management Expenses</td>
<td>11,909</td>
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<tr>
<td>Facility Maintenance Expenses</td>
<td>7,040</td>
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<tr>
<td>Subsidy Expenditure</td>
<td>6,879</td>
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<tr>
<td>University-Industry Cooperative Research Expenses and Endowment Project Expenses</td>
<td>14,653</td>
</tr>
<tr>
<td>Long-Term Loan Redemption Expenses</td>
<td>5,655</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>128,119</td>
</tr>
</tbody>
</table>

(FY2009, in millions of Yen)
Foothold on Frontier Research

**World Premier International Research Center** [http://www.ifrec.osaka-u.ac.jp/index-e.php](http://www.ifrec.osaka-u.ac.jp/index-e.php)

<table>
<thead>
<tr>
<th>Center name</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunology Frontier Research Center</td>
<td>AKIRA Shizuo</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Program title</th>
<th>Program leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center of Human-friendly Robotics Based on Cognitive Neuroscience</td>
<td>ISHIGURO Hiroshi</td>
</tr>
<tr>
<td>Frontier Biomedical Science Underlying Organelle Network Biology</td>
<td>YONEDA Yoshihiro</td>
</tr>
<tr>
<td>Core Research and Engineering of Advanced Materials -Interdisciplinary Education Center for Materials Science</td>
<td>KITAOKA Yoshio</td>
</tr>
<tr>
<td>A Center of Excellence for Atomically Controlled Fabrication Technology</td>
<td>YAMAUCHI Kazuto</td>
</tr>
<tr>
<td>Human Behaviour and Socioeconomic Dynamics</td>
<td>OHTAKE Fumio</td>
</tr>
<tr>
<td>System Dynamics of Biological Functions</td>
<td>YANAGIDA Toshio</td>
</tr>
<tr>
<td>Global Education and Research Center for Bio-Environmental Chemistry</td>
<td>FUKUZUMI Shunichi</td>
</tr>
<tr>
<td>Center of Excellence for Advanced Structural and Functional Materials Design</td>
<td>KAKESHITA Tomoyuki</td>
</tr>
<tr>
<td>Center of Excellence for Founding Ambient Information Society Infrastructure</td>
<td>MURATA Masayuki</td>
</tr>
<tr>
<td>Center for Electronic Devices Innovation</td>
<td>TANIGUCHI Kenji</td>
</tr>
<tr>
<td>A Research Base for Conflict Studies in the Humanities</td>
<td>KOIZUMI Junji</td>
</tr>
<tr>
<td>A Center of Excellence for an in Silico Medicine- Oriented Worldwide Open Platform</td>
<td>NOMURA Taishin</td>
</tr>
</tbody>
</table>
Degree Programs in English

New Programs
— Human Sciences Course (BA) (To commence in Apr. 2011)
— Chemistry/Biology Double Major Course (BS) (To commence in Oct. 2010)
— Special Integrated Science (MS/Ph.D.) (To commence in Oct. 2010)
— International Physics Course (MS/Ph.D.) (To commence in Oct. 2010)

Ongoing Graduate Degree Programs
— Frontier Biotechnology (http://www.mls.eng.osaka-u.ac.jp/FB_inter_prog/FB_inter_prog.html)
— Engineering Science (http://www.es.osaka-u.ac.jp/eng/gradadm/index.html)
— Naval Architecture and Ocean Engineering (http://www.naoe.eng.osaka-u.ac.jp/eng/)
— Quantum Engineering & Design (http://www.dyn.ap.eng.osaka-u.ac.jp/QEDC/)

Short-Term Non-Degree Programs
— FrontierLab@OsakaU (http://www.osaka-u.ac.jp/jp/international/iab/e/FrontierLab.html)
  A Program for international students seeking a challenging, short-term upgrading of vital research and analytical skills.
— OUSSEP (http://ex.isc.osaka-u.ac.jp/oussep/eindex.html)
  Short-term Student Exchange Program, provides liberal arts subjects to international students in English.
— Maple (http://www.cjlc.osaka-u.ac.jp/programs/m/index.html)
  One-year program specifically designed to help students improve their Japanese language skills and enhance their knowledge of Japanese culture and society.
International Exchange

**Academic Exchange Agreements** (as of September 1, 2009)

74 Inter-University Agreements

310 Inter-Faculty Agreements

**Inter-University Agreements**

- **Finland**
  - Åbo Akademi University

- **Sweden**
  - Karolinska Institutet
  - Royal Institute of Technology (KTH)
  - University of Gothenburg

- **Denmark**
  - The University of Copenhagen

- **UK**
  - University College London
  - The University of Nottingham

- **Netherlands**
  - Delft University of Technology
  - University of Groningen

- **Switzerland**
  - École Polytechnique Fédérale de Lausanne (EPFL)

- **Belgium**
  - Université catholique de Louvain (UCL)

- **Spain**
  - Universidad Autónoma de Madrid
  - University of Valladolid

- **Germany**
  - Friedrich-Alexander Universität Erlangen-Nürnberg
  - Ludwig-Maximilians-University of Munich
  - RWTH Aachen University
  - Technische Universität München
  - University of Augsburg

- **France**
  - Centre National de la Recherche Scientifique (CNRS)
  - Consortium Français du Collège Doctoral Franco-Japonais (CDFJ)
  - École Nationale Supérieure de Chimie de Paris
  - Grenoble Universités (Consortium of Universities in Grenoble)
  - Pierre & Marie Curie University
  - University of Strasbourg

- **Thailand**
  - Chiang Mai University
  - Chulalongkorn University
  - Department of Medical Sciences, Ministry of Public Health
  - Kasetsart University
  - King Mongkut's University of Technology
  - Thonburi
  - Mahidol University
  - Thammasat University

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

- **Mongolia**
  - National University of Mongolia

- **Vietnam**
  - Vietnam National University-Ho Chi Minh City
  - Vietnam National University, Hanoi

- **Indonesia**
  - Institut Teknologi Bandung

- **Australia**
  - The Australian National University
  - Monash University

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**Total Agreements**

- 74 Inter-University Agreements
- 310 Inter-Faculty Agreements
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- Asia 34
- Europe 25
- North America 11
- Oceania 2
- Central and South America 2
- Asia 118
- Europe 114
- North America 48
- Oceania 8
- Central and South America 6
- Africa 8
- Middle East 8
- 310 Inter-Faculty Agreements
- Asia 34
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- North America 11
- Oceania 2
- Central and South America 2
- Asia 118
- Europe 114
- North America 48
- Oceania 8
- Central and South America 6
- Africa 8
- Middle East 8
Korea
- Chonnam National University
- Chungnam National University
- Gyeongsang National University
- Pusan National University
- Seoul National University
- Yonsei University
- Hanyang University
- Chung-Ang University
- Changwon National University

China
- Fudan University
- Nanjing University
- Peking University
- Shanghai JiaoTong University
- Tsinghua University
- Wuhan University
- Xi'an Jiaotong University
- Zhejiang University

Canada
- Canada-Japan Strategic Student Exchange Program
- The Conference of Rectors and Principals of Quebec Universities
- McGill University
- McMaster University
- University of British Columbia

USA
- Cornell University
- Nazareth College of Rochester
- Texas A&M University
- University of California
- University of Washington
- Wesleyan College

Mexico
- National Autonomous University of Mexico

Peru
- Pontifical Catholic University of Peru

Number of International Students

- Total 1,455
- North America 34
- Asia 1,121
- Central and South America 47
- Europe 168
- Africa 31
- Oceania 16

Number of International Researchers

- Total 2,854
- North America 401
- Europe 738
- Asia 1,464
- Central and South America 68
- Africa 79
- Middle East 52
- Oceania 52

http://www.osaka-u.ac.jp/en/guide/international/exchange

- Mutual Tuition Waivers may be implemented
Support Office for International Students and Scholars
https://55099zzwd.coop.osaka-u.ac.jp/SupportOffice/eng/home
Support in visa applications, application for certificate of eligibility for status of residence
Residential assistance
Providing other various information

GCN-Osaka http://www.gcn-osaka.jp/
Online community site for international students and scholars

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JAPAN

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E-mail kenkyou-r@star.jim.osaka-u.ac.jp

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International Affairs Division
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E-mail:kokusai@hpc.cmc.osaka-u.ac.jp