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Japan System Techniques Co., Ltd.  
Osaka Metropolitan University

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**JAST, Osaka Metropolitan University Graduate School of Human Life and Ecology and Osaka Metropolitan University Graduate School of Rehabilitation Science Sign Agreement for Cooperation for Well-being Co-creation Research Centered on Health Care**

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Japan System Techniques Co., Ltd. (Head office: Osaka; Representative: Takeaki Hirabayashi, President and CEO; JAST) and Osaka Metropolitan University Graduate School of Human Life and Ecology (Location: Osaka; President: Hiroyuki Sakuragi) have been conducting joint activities involving support for health care programs using medical big data since signing an agreement to cooperate in this field in March 2023. Going one more step, JAST, Osaka Metropolitan University Graduate School of Human Life and Ecology and Osaka Metropolitan University Graduate School of Rehabilitation Science have signed an agreement for cooperation involving well-being co-creation research centered on the health care field.



From left: Michihiko Tokoro, Dean, Graduate School of Human Life and Ecology, Osaka Metropolitan University;  
Takeaki Hirabayashi, President and CEO, JAST;  
Katsushi Yokoi, Dean, Graduate School of Rehabilitation Science, Osaka Metropolitan University

### ■ Joint activities and purpose of enlarging the breadth of these activities

JAST and the Graduate School of Human Life and Ecology signed an agreement for cooperation for the purpose of conducting research projects involving health care and enabling the public to benefit from the results of these projects. Activities had the goals of extending healthy life expectancy, improving the quality of life (QOL) at all stages of life, and creating sound and vibrant communities. In particular, research projects are under way that draw on the urban science and residential environment knowledge of the Graduate School of Human Life and Ecology to establish community building assessments that incorporate the benefits of health care expense reductions and for other purposes.

Increasing the breadth of this research by adding the Graduate School of Rehabilitation Science will enable these programs to incorporate specialized knowledge in the fields of physical therapy and occupational therapy. This is expected to strengthen programs for meeting the diverse needs of seniors, people who require nursing care and people with disabilities by improving the QOL and giving them a longer healthy life. In addition, the extension of the cooperation agreement with the Graduate School of Human Life and Ecology will make it possible to focus more on activities for progress for training programs that give people new skills and for making communities even stronger.

Osaka Metropolitan University plans to begin operating its new Morinomiya campus in September 2025. In conjunction with this move, the decision was made to establish the Well-being Collaborative Creation Research Center. This center will perform research that can improve the well-being of people in nearby areas and conduct numerous programs that contribute to society. Solving the health and welfare issues of people, chiefly people living in the Morinomiya area, is one goal of the center. Furthermore, advances resulting from research programs will be made accessible to people throughout Japan and worldwide. The objective is playing a role in creating a sound society of the future while using this agreement for stronger ties with communities and the achievement of a sustainable healthy society.

### ■ Upcoming Activities

The plan is to further broaden the use of models for evaluating social impacts from the standpoint of medical expenses, which is a current research theme. With activities centered on the Well-being Collaborative Creation Research Center, programs will have the objectives of evaluating community creation and policies and the creation of evidence. In the future, there may be new businesses using industry-academia alliances backed by the utilization of social impact bonds and other measures. Activities will also include many studies for ways to use data in education programs. In addition, the expansion of cooperation with the Graduate School of Rehabilitation Science is expected to create many more research topics for the use of data that can make a contribution to society.

### ■ About Osaka Metropolitan University

Osaka City University and Osaka Prefecture University merged in April 2022 to form Osaka Metropolitan University. It is one of the largest public universities in Japan with approximately 16,000 students. The university has 12 faculties and academic disciplines and 15 graduate schools, covering a wide range of academic fields. The Morinomiya campus, which is scheduled to begin operating in September 2025, will be the new base for the Faculty of Liberal Arts, Sciences and Global Education, School of Literature and Human Sciences, Graduate School of Literature and Human Sciences, Department of Rehabilitation Science of the School of Medicine, Graduate School of Rehabilitation Science, Department of Nutrition of the School of Human Life and Ecology, and Graduate School of Nutrition of the School of Human Life and Ecology.

Human life and ecology is a postgraduate course that is constantly aiming for more progress in this field, which is a comprehensive interdisciplinary domain that combines culture and science. The social background for this

course is the emerging need for specialists in many sectors in order to solve current social problems. Education and training programs along with contributions to society are the primary objectives. These goals are accomplished by using R&D programs backed by the collaboration of individuals and stakeholders in many fields involving nutrition, living environments and welfare programs, all from the perspective of wellbeing.

The Graduate School of Rehabilitation Science has the mission of creating the new category of rehabilitation science as a field encompassing staying healthy and becoming healthier, preventing diseases and disabilities, treating and recovering from diseases, returning people to society, and other activities. In society today, the study of rehabilitation has a role that goes beyond merely conventional third-tier preventive measures centered on recovery from a disease and preventing a reoccurrence. This field also covers support for the self-reliance of regions and participation in society. As a result, research and other activities must be even more closely linked with people's lives. The Graduate School of Rehabilitation Science consists of the physical therapy sector and the occupational therapy sector. By conducting advanced research and devising practical applications for new ideas, this school is giving people training to become highly skilled research scientists with many practical skills.

#### ■ The Future Co-Creation Laboratory of JAST

The Future Co-Creation Laboratory of JAST is engaged in the co-creation digital transformation (DX) by using partnerships with companies, academic institutions and local governments. Activities involve the development of new products and services by using JAST's REZULT medical big data platform and working closely with partners and customers. Main objectives are the growth of data held by JAST and its corporate value and the creation of more methods for solving the problems of customers.

Operations of the Future Co-Creation Laboratory also contribute to accomplishing Sustainable Development Goals number three, good health and well-being, and nine, industry, innovation and infrastructure. These activities include the use of medical big data to enable people to stay healthy and the use of alliances with the academic sector for joint research and the development of products.



#### ・ REZULT Medical Big Data Platform

REZULT is one of the largest databases in its category. The database covers health insurance invoice data for medical care and prescriptions, including the Diagnosis Procedure Combination (DPC) of the Ministry of Health, Labour and Welfare. Invoice information is anonymous and used with the permission of health insurance organizations. The number of patients, medical expenses and other items can be aggregated based on gender, age, location of healthcare facilities and other parameters. Some profile data is supplied to Amazon Web Services to provide easy access to RESULT users who want to use this information. REZULT data is a valuable resource for activities ranging from co-creation and research projects to marketing.

・ **Health Insurance Invoices**

When an individual receives a medical treatment covered by insurance, the medical institution sends an invoice listing the procedures and amounts due to the health insurance association or municipality. For medical and dental care, an invoice listing the procedures and amounts due is sent. For pharmacies, an invoice listing the drugs supplied and amounts due is sent. For nurses visiting individuals at home, an invoice listing home nursing care services and amounts due is sent. One invoice for each patient and individual healthcare institution is prepared every month. Invoices contain information about the reasons that individuals received medical care, the cost of the care and other items. JAST converts this information into a database for subsequent utilization.

■ **Inquiries**

Japan System Techniques Co., Ltd.  
Future Co-Creation Laboratory  
TEL: +81-3-6718-2785  
Mail: [JAST-Lab@jast.co.jp](mailto:JAST-Lab@jast.co.jp)  
URL: <https://www.jastlab.jast.jp/>

Osaka Metropolitan University  
Graduate School of Human Life and Ecology  
Senior Lecturer, Haruka Kato  
Mail: [haruka-kato@omu.ac.jp](mailto:haruka-kato@omu.ac.jp)

■ **Press Inquiries**

Japan System Techniques Co., Ltd.  
Contact: Yamashita/Ishida  
General Affairs Department  
TEL: +81-6-4560-1000  
Mail: [press@jast.co.jp](mailto:press@jast.co.jp)  
URL: <https://www.jast.jp/>