

Chronology (Detailed Version)

1964 Science Council of Japan recommends that the government establish a National Welding Research Institute.

1966 The government makes a resolution to realize the above proposal at the ministerial meeting.

1969 Welding Research Center (Division of Welding Energy Sources & Heat Transfer) is established in the Faculty of Engineering, Osaka University.

1970 Heat and Mass Transfer Division is established.

1971 Chemical Reaction Division is established.

1972 "Welding Research Institute" is established as a nationwide joint-use research institute of Osaka University, starting with four research divisions (Welding Energy Sources & Heat Transfer, Heat and Mass Transfer, Chemical Reaction, and Material Physics) and two administrative units.

1973 The Lab. for Common Use is completed (1376 m²).
Elasticity and Plasticity Division is established.

1974 Welding Instruments Division is established.

1975 The Main Research Building including the Administrative Office is partially completed (2644 m²).

1976 Welded Structures Division is established.

1978 Fusion Welding Division is established.

1979 The Main Research Building is expanded (2101 m²).
One additional Administrative Unit is established.

1980 Pressure Welding Division is established.
The Research Center for Ultra High Energy Density Heat Source building is completed (1754 m²).

1981 Research Center for Ultra High Energy Density Heat Source is established (currently called Research Center for Additive Joining Application (RAJA)).

1987 The Main Research Building is completed (900 m²).

1988 Research Center for High Energy Surface Processing is established (currently also called RAJA).
The Arata Memorial Hall is completed (752 m²).

1995 Welding Research Institute is appointed as an organization of "Core Research Organization Support Program" for the formation of Center of Excellence (COE).

1996 "Welding Research Institute" is reorganized and converted into "Joining and Welding Research Institute," consisting of three research divisions, two research centers, three administrative units, and a technical expert division.
Research Center for Materials Recycling and Integration is established (reorganized and converted from former Research Center for High Energy Surface Processing).

2002 Donated Research Division of Nanopowder Bonding Technology (Hosokawa Micron Corporation) is established (implemented through March 31st, 2005).

2003 Smart Processing Research Center is established (reorganized and converted from former Research Center for Ultra High Energy Density Heat Source and Research Center for Materials Recycling and Integration).

2004 Osaka university is transformed into a national university cooperation.

2005 The administrative units are integrated into two units.
Development Base of Joining Technology for New Metallic Glasses and Inorganic Materials is established (implemented through March 31st, 2010).

2006 Professor Emeritus ARATA Yoshiaki is awarded the Order of Culture.
The Cooperated Research Lab. is completed (595 m²).
The name of Department of Chemical and Biological Processing is changed to Department of Laser Welding Materials Processing.

2007 Global and Industrial Collaborative Research Center for Computational Welding Science (CCWS) is established.
Department of Advanced Processing for Hybrid Materials (Kurimoto Ltd.) is established (implemented through March 31st, 2010)

2008 The International Welding Engineer (IWE) Course is established.
One additional Administrative Unit is established.
Toyo Tanso "Advanced Carbon Design" Joint Research Chair is established (implemented through September 30th, 2013).

2009 JWRI is accredited as the Joint Usage/Research Center on Joining and Welding Science by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in Japan.

2010 Development Base of Advanced Materials Development and Integration of Novel Structured Metallic and Inorganic Materials is established (implemented through March 31st, 2016).

The Joint Interface microstructure Characterization Room is established.

Fuji Electric Co., Ltd. Joint Research Chair is established (implemented through June 30th, 2013).

2011 Hitachi Zosen Advanced Welding Technology Joint Research Chair is established (implemented through March 31st, 2022).

Department of Eco Materials Processing is established in Division of Materials Processing System.

2013 Osaka Fuji Advanced Functional Processing Joint Research Chair is established.

Center to Create Research and Educational Hubs for Innovative Manufacturing in Asia /Division of Global Joining for Extreme Environments is established (implemented through March 31, 2018).

2014 The Common Research Lab. is completed (1472 m²).

2015 Structural Integrity and Failure Assessments is established in Research Division of Materials Joining Assessment.

Department of Smart Beam Processing, Smart Processing Research Center is discontinued.

2016 JWRI is reorganized (with changes of the research division names, department names, and the research division affiliations and with discontinuation of Department of ECO Materials Processing).

Development Base on Development of Interdisciplinary and International Researchers for Creation of Life Innovation Materials is established (implemented through March 31st, 2021).

Advanced Joint Production System Joint Research Chairs is established (implemented through March 31st, 2020).

2017 Department of Life-innovation Materials Processing is established in Smart Processing Research Center.

The Main Research Building is fully renovated.

2018 JFE Welding Research Alliance Laboratories are established (implemented through March 31st, 2024).

Advanced Joining Technology Joint Research Chair is established (implemented through March 31st, 2021).

Center to Create Research and Educational Hubs for Innovative Manufacturing in Asia /Division of International Collaboration Research/Division of Global Human Resource Development is established (implemented through March 31, 2022).

2019 DAIHEN Welding and Joining Research Alliance Laboratories are established.

2020 The Co-Creation Consortium for Joining and Welding with Blue Diode Laser is established.

2021 Nippon Steel Future Manufacturing Research Alliance Laboratories are established.

Advanced Joint Production System Joint Research Chair is established (implemented through March 31st, 2024).

Joining Technology Hub is established.

The Design & Engineering by Joint Inverse Innovation for Materials Architecture Project (DEJ²MA) is established.

2022 JWRI celebrates its 50th anniversary.

RAJA is established (reorganized and converted from former Smart Processing Research Center).

The Project "Development of Inter-Institute Collaborations of 6 Research Institutes from 6 Universities for Strengthening Material Innovation Force" supported by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) begins.

JWRI is reorganized (with changes of the department names and with consolidation of the departments in Research Division of Materials Joining Assessment).

Global D & I Promotion Office is established.

2023 Strategy Office for Promotion of Inter-Institute Collaborations is established.

New Normal Manufacturing Consortium Office is established.

Joining and Welding Research Institute HUST-OU was established at Hanoi University of Science and Technology, Vietnam.

2024 Honda-Osaka Univ. Joining Technology Monozukuri Research Alliance Laboratories are established.

2025 RAJA Building No. 1 is fully renovated.
The administrative units are integrated into two units.