

**ASPIRE 2025 for Top Scientists**  
**List of the Funded Projects**

■ **AI/ Information**

	<b>Project Title</b>	<b>Japan-side Principal Investigator</b>
		<b>Partner Principal Investigators</b>
1	International Circulation of Knowledge for Embodied Reconfigurability	<p>INAMI Masahiko, Professor, Research Center for Advanced Science and Technology, The University of Tokyo</p> <p><b>Australia</b> Ken-Tye Yong, Professor, Faculty of Engineering, The University of Sydney  <b>France</b> Ganesh Gowrishankar, Senior Researcher, Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier, the Centre National de la Recherche Scientifique  <b>Germany</b> Jürgen Steimle, Professor, Department of Computer Science, Saarland University  <b>South Korea</b> Andrea Bianchi, Associate Professor, Department of Industrial Design &amp; School of Computing, Korea Advanced Institute of Science and Technology  <b>US</b> Aaron Steinfeld, Research Professor and Head of Faculty Mentoring, Robotics Institute, Carnegie Mellon University  <b>US</b> Steven Feiner, Professor, Department of Computer Science, Columbia University</p>
2	Deep Sensing: Jointly optimizing sensing and processing for CV/ AI applications	<p>NAGAHARA Hajime, Professor, D3 Center, The University of Osaka</p> <p><b>Canada</b> Michael Brown, Chair Professor, Department of Electrical Engineering &amp; Computer Science, York University  <b>US</b> Ming-Hsuan Yang, Professor, Department of Electrical Engineering &amp; Computer Science, University of California at Merced  <b>US</b> Shree Nayar, Professor, Computer Science, Columbia University  <b>US</b> Srinivasa Narasimhan, Professor, The Robotics Institute, Carnegie Mellon University</p>

		FURUYA Shinichi, Research Director, Tokyo Research, Sony Computer Science Laboratories Inc.
3	Global Skill-Science Network for Transferring and Breaking the Limits of Human Expertise	<p><b>Switzerland</b> Friedhelm Hummel, Professor, Clinical Neuroengineering Brain Mind Institute, Ecole polytechnique fédérale de Lausanne (EPFL)</p> <p><b>UK</b> Maria Herrojo Ruiz, Reader, Department of Psychology, University of London Goldsmiths</p> <p><b>US</b> NISHIDA Jun, Assistant Professor, Department of Computer Science, University of Maryland</p> <p><b>US</b> Oyewole Oyekoya, Associate Professor, Department of Computer Science, The City University of New York</p> <p><b>US</b> Peter Stone, Professor, Department of Computer Science, University of Texas at Austin</p>
4	Enhancing Humanity: International Research Collaboration Network Towards an Inclusive Future through Human Augmentation	<p>MINAMIZAWA Kouta, Professor, Graduate School of Media Design, Keio University</p> <p><b>France</b> Anatole Lécuyer, Senior Researcher, INRIA Rennes, INRIA</p> <p><b>Italy</b> Domenico Prattichizzo, Professor, Department of Information Engineering, University of Siena</p> <p><b>UK</b> Catherine Holloway, Co-Founder &amp; Academic Director, Professor, Global Disability Innovation (GDI) Hub, University College London</p> <p><b>US</b> Pattie Maes, Professor, Program of Media Arts and Sciences, MIT MediaLab</p> <p><b>US</b> Pedro Lopes, Associate Professor, Department of Computer Science, University of Chicago</p>

## ■ Biotechnology

Project Title	Japan-side Principal Investigator
	Partner Principal Investigators
1 Engineering Biology of Cell Membranes	KAWANO Ryuji, Professor, Institute of Engineering, Tokyo University of Agriculture and Technology

		<p><b>Canada</b> Juwen Liu, Professor, Department of Chemistry, University of Waterloo</p> <p><b>France</b> HARAYAMA Takeshi, Group Leader, Institute of Molecular and Cellular Pharmacology (National Institute of Health and Medical Research, French National Centre for Scientific Research, University of Côte d'Azur)</p> <p><b>Netherlands</b> Giovanni Maglia, Professor, Groningen Biomolecular Sciences &amp; Biotechnology Institute, University of Groningen</p> <p><b>Netherlands</b> Wilhelm Huck, Professor, Institute for Molecules and Materials, Radboud University</p> <p><b>US</b> Aleksei Aksimentiev, Professor, The Grainger College of Engineering, University of Illinois Urbana-Champaign</p> <p><b>US</b> James Friend, Professor, Department of Mechanical and Aerospace Engineering, University of California, San Diego</p> <p><b>US</b> Ryan White, Professor, Department of Chemistry, University of Cincinnati</p> <p><b>US</b> INOUE Takanari, Professor, Department of Cell Biology, Johns Hopkins University School of Medicine</p> <p><b>US</b> Thorsten Schmidt, Associate Professor, Department of Physics, Kent State University</p>
2	Molecular Dissection of Plant–Soil Microbial Networks Including Nematodes to Advance Holobiome Understanding and Establish a Foundation for Sustainable Agriculture	<p>SAWA Shinihiro, Professor, Graduate School of Science and Technology, Kumamoto University</p> <p><b>France</b> Bruno Favery, Deputy Head, Institut Sophia Agrobiotec, l'Institut national de recherche pour l'agriculture, l'alimentation et l'environnement</p>
3	Global Nexus for Biohybrid Robotics	<p>TAKEUCHI Shoji, Professor, Graduate School of Information Science and Technology, The University of Tokyo</p> <p><b>Sweden</b> Frank Niklaus, Professor, Division of Micro and Nanosystems, KTH Royal Institute of Technology</p> <p><b>Switzerland</b> Robert Katzschmann, Assistant Professor, Department of Mechanical and Process Engineering, ETH Zurich</p> <p><b>US</b> David Kaplan, Distinguished University Professor, Center for Cellular Agriculture, Tufts University</p> <p><b>US</b> Dino Di Carlo, Armond and Elena Hairapetian Professor and Chair, Department of Bioengineering, University of California, Los Angeles</p> <p><b>US</b> Taher Saif, Professor, Mechanical Science and Engineering, University of Illinois at Urbana-Champaign</p>

■ Material

Project Title		Japan-side Principal Investigator
		Partner Principal Investigators
1	Carbon-based material-biology interface science	<p>ITAMI Kenichiro, Chief Scientist, Pioneering Research Institute, RIKEN</p> <p><b>Canada</b> Cathleen M. Cruden, Director, Carbon-to-Metal Coating Institute, Queen's University  <b>Germany</b> Bart Jan Ravoo, Co-director, Center for Soft Nanoscience, University of Münster  <b>Germany</b> Christos Gatsogiannis, Co-director, Center for Soft Nanoscience, University of Münster</p>
2	Development of Innovative Soft Materials Composed of Colloidal Building Blocks –Toward the Construction and Future Perspectives of Next-Generation Soft Materials Integrating Flexibility and Hierarchical Order–	<p>TAKEOKA Yukikazu, Associate Professor, Department of Molecular &amp; Macromolecular Chemistry, Nagoya University</p> <p><b>Belgium</b> Jeremy Odent, Associate Professor, Laboratory of Polymeric and Composite Materials, University of Mons  <b>Canada</b> Mark MacLachlan, Professor, Department of Chemistry, The University of British Columbia  <b>US</b> Robert Macfarlane, Professor, Department of Materials Science and Engineering, Massachusetts Institute of Technology</p>
3	A Comprehensive Study on Flexible and Stretchable Electronics	<p>MATSUHISA Naoji, Associate Professor, Institute of Industrial Science, The University of Tokyo</p> <p><b>Australia</b> James Bullock, Associate Professor, Electrical, Mechanical and Infrastructure Engineering, The University of Melbourne  <b>Austria</b> Martin Kaltenbrunner, Professor, Soft Matter Physics and LIT, Soft Materials Lab, Johannes Kepler University LINZ  <b>Finland</b> Kari Rönkä, Vice President, Sensing Solutions Research Area, VTT Technical Research Centre of Finland  <b>Germany</b> Christopher Synatschke, Group Leader, Synthesis of Macromolecules, Max Planck Institute for Polymer Research  <b>Italy</b> Gianni Ciofani, Principal Investigator/ Coordinator, Smart Bio-Interfaces Research Unit, Center for Materials Interfaces, Italian Institute of Technology  <b>South Korea</b> Jiheong Kang, Associate Professor, Department of Chemistry, Seoul National University  <b>UK</b> George Malliaras, Prince Philip Professor, Electrical Engineering Division, University of Cambridge</p>

	<p><b>UK</b> Nicola Gasparini, Associate Professor, Imperial College London</p> <p><b>US</b> Kevin Plaxco, Professor, Department of Chemistry and Biochemistry, University of California Santa Barbara</p> <p><b>US</b> Tania Roy, Assistant Professor, Electrical and Computer Engineering, Duke University</p> <p><b>US</b> Thuc-Quyen Nguyen, Professor, Department of Chemistry and Biochemistry, University of California</p> <p><b>US</b> Zhenan Bao, K.K. Lee Professor, Department of Chemical Engineering, Stanford University</p>
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## ■ Quantum

	<b>Project Title</b>	<b>Japan-side Principal Investigator</b>
		<b>Partner Principal Investigators</b>
1	Creation of Integrated Optical Quantum Technologies through the Fusion of Nanophotonics and Atomic Physics	<p>AOKI Takao, Professor, Faculty of Science and Engineering, Waseda University</p> <p><b>France</b> Etienne Brion, Chargé de Recherche, Laboratoire Collisions Agrégats Réactivité, CNRS – Université de Toulouse</p> <p><b>France</b> Julien Laurat, Distinguished Professor, Laboratoire Kastler Brossel, Sorbonne Université</p> <p><b>Germany</b> Arno Rauschenbeutel, Alexander von Humboldt Professor, Department of Physics, Humboldt-University Berlin</p> <p><b>Germany</b> Sebastian Hofferberth, Professor, Institute for Applied Physics, University of Bonn</p> <p><b>Spain</b> Darrick Chang, Group Leader, Theoretical Quantum Nanophotonics, ICFO – The Institute of Photonic Sciences</p> <p><b>US</b> Chen-Lung Hung, Professor, Department of Physics and Astronomy, Purdue University</p> <p><b>US</b> Vladan Vuletic, Lester Wolfe Professor of Physics, Department of Physics, Massachusetts Institute of Technology</p>
2	Construction of international research platform for creating exotic quantum materials	<p>SATO Takafumi, Professor, WPI-AIMR (Advanced Institute for Materials Research), Tohoku University</p> <p><b>US</b> Xiaodong Xu, Professor, Department of Physics, Department of MSE, University of Washington</p> <p><b>US</b> Zhiqiang Mao, Professor, Department of Physics, The Pennsylvania State University</p>

	<p>NAKAMURA Yasunobu, Director, Center for Quantum Computing, RIKEN</p> <p><b>Canada</b> Alexandre Blais, Professor, Physics, Université de Sherbrooke</p> <p><b>Canada</b> Christopher Wilson, Professor, Institute for Quantum Computing &amp; Department of Electrical and Computer Engineering, University of Waterloo</p> <p><b>Canada</b> Stephen Hughes, Professor, Department of Physics, Queen's University</p> <p><b>Czech Republic</b> Ievgen Arkhipov, Assistant Professor, Faculty of Science, Palacký University</p> <p><b>Finland</b> Christian Flindt, Associate Professor, Department of Applied Physics, Aalto University</p> <p><b>France</b> Mazyar Mirrahimi, Senior Researcher, Quantic Team, INRIA Paris</p> <p><b>Germany</b> Frank Wilhelm-Mauch, Director, Institute for Quantum Computing Analytics (PGI-12), Forschungszentrum Jülich</p> <p><b>Italy</b> Salvatore Savasta, Professor, MIET Department, Messina University</p> <p><b>Netherlands</b> Simon Gröblacher, Professor, Department of Quantum Nanoscience, Delft University of Technology</p> <p><b>Poland</b> Adam Miranowicz, Professor, Faculty of Physics, Adam Mickiewicz University</p> <p><b>Spain</b> Artur Garcia Saez, Leading Researcher, CASE, Barcelona Supercomputing Center</p> <p><b>Sweden</b> Per Delsing, Professor, Quantum Technology Laboratory, Department of Microtechnology and Nanoscience, Chalmers University of Technology</p> <p><b>Switzerland</b> Andreas Wallraff, Professor, Department of Physics, ETH Zurich</p> <p><b>US</b> Alireza Marandi, Professor, Division of Engineering and Applied Science, California Institute of Technology</p> <p><b>US</b> Andrew Cleland, Professor, Pritzker School of Molecular Engineering, University of Chicago</p> <p><b>US</b> Britton Plourde, Professor, Department of Physics, University of Wisconsin-Madison</p> <p><b>US</b> David Schuster, Applied Physics Department, Stanford University</p> <p><b>US</b> Irfan Siddiqi, Professor, Department of Physics, University</p>
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	<p>of California, Berkeley</p> <p><b>US</b> Michel Devoret, Professor, Department of Physics, University of California, Santa Barbara</p> <p><b>US</b> William Oliver, Department of EECS and Department of Physics, Massachusetts Institute of Technology</p>
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## ■ Semiconductors

Project Title	Japan-side Principal Investigator
	Partner Principal Investigators
1 International Initiative for Cross-Layer IC Design	<p>OKADA Kenichi, Professor, Department of Electrical and Electronic Engineering, School of Engineering, Institute of Science Tokyo</p> <p><b>Italy</b> Salvatore Levantino, Professor, Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano</p> <p><b>South Korea</b> Jerald Yoo, Associate Professor, Department of Electrical and Computer Engineering, Seoul National University</p> <p><b>Switzerland</b> Hua Wang, Professor and Chair of Electronics, Department of Information Technology and Electrical Engineering, Swiss Federal Institute of Technology Zurich</p> <p><b>US</b> Behzad Razavi, Professor, Electrical Engineering Department, University of California Los Angeles (UCLA)</p>
2 Development of design framework of VLSI circuit with advanced process node	<p>KOSUGE Atsutake, Associate Professor, Graduate School of Engineering, The University of Tokyo</p> <p><b>South Korea</b> Kyuho Lee, Associate Professor, Department of Electrical and Electronic Engineering, Yonsei University</p> <p><b>US</b> Priyanka Raina, Associate Professor, Department of Electrical Engineering, School of Engineering, Stanford University</p>
3 Japan-EU-US integrated MEMS network for edge semiconductors providing high functionalities and	MITA Yoshio, Professor, Graduate School of Engineering, The University of Tokyo

	revolutionary computing principles	<p><b>Belgium</b> Michael Kraft, Director, Professor, LIMNI Laboratory, KU Leuven</p> <p><b>Belgium</b> Philippe Helin, Program Director, Specialty Components &amp; Platform Development, IMEC</p> <p><b>UK</b> Hadi Heidari, Professor, Head of Electronic &amp; Nanoscale Engineering (ENE) Division, James Watt School of Engineering, Glasgow University</p> <p><b>US</b> Tianhong Cui, Distinguished McKnight University Professor, Department of Mechanical Engineering, University of Minnesota</p>
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## ■ Telecommunications

	<b>Project Title</b>  1 Realtime digital twin platforms for super smart society	<b>Japan-side Principal Investigator</b>
		<b>Partner Principal Investigators</b>
		<p>SAKAGUCHI Kei, Professor, School of Engineering, Institute of Science Tokyo</p> <p><b>Australia</b> Branka Vucetic, ARC Laureate Fellow, Director of the Centre for IoT and Telecommunications, University of Sydney</p> <p><b>Australia</b> Sophie Jones, Senior Lecturer, Melbourne School of Health Sciences, the University of Melbourne</p> <p><b>France</b> Emilio Calvanese Strinati, Director of Science and Technology Innovation for 6G International Program, CEA-Leti</p> <p><b>Germany</b> Haris Gacanin, Chair for Distributed Signal Processing, RWTH Aachen University</p> <p><b>Germany</b> Thomas Haustein, Head of Department Wireless Communications and Networks, Fraunhofer Heinrich-Hertz-Institute</p> <p><b>Italy</b> Antonio Capone, Full Professor, Department of Electronics, Information and Bioengineering (DEIB), Politecnico di Milano</p> <p><b>South Korea</b> Jeung-Im Kim, Professor, School of Nursing, Soonchunhyang University</p> <p><b>South Korea</b> Seong-Lyun Kim, Professor, School of Electrical and Electronic Engineering, Yonsei University</p> <p><b>US</b> FURUKAWA Tomonari, Professor, School of Engineering and Applied Science, University of Virginia</p> <p><b>US</b> Walid Saad, Rolls Royce Commonwealth Professor, Department of Electrical and Computer Engineering, Virginia Tech</p>

**ASPIRE 2025 for Rising Scientists**  
**List of the Funded Projects**

■ **AI/ Information**

Project Title	Japan-side Principal Investigator
	Partner Principal Investigators
1 Building Multimodal AI Foundation Models under Limited Resources	<p>KATAOKA Hirokatsu, Chief Senior Researcher, Artificial Intelligence Research Center, National Institute of Advanced Industrial Science and Technology (AIST)</p> <p><b>Germany</b> Yuki Markus Asano, Full Professor, Department of Engineering, University of Technology Nuremberg  <b>UK</b> Christian Rupprecht, Associate Professor, Department of Computer Science, University of Oxford  <b>UK</b> Shangzhe Wu, Assistant Professor, Department of Engineering, University of Cambridge</p>
2 From Natural Language to Safe Actions: Crafting an Automatic Control Design Architecture for AIPhysical Systems towards Society 5.0 through the Japan–Canada–USA Network	<p>CAI Kai, Full Professor, Department of Core Informatics, Graduate School of Informatics, Osaka Metropolitan University</p> <p><b>Canada</b> Lacra Pavel, Full Professor, Department of Electrical and Computer Engineering, University of Toronto  <b>US</b> Chuchu Fan, Associate Professor, Department of Aeronautics and Astronautics, Massachusetts Institute of Technology</p>
3 Combinatorics and Algorithms for Identifiability Problems in Rigidity Theory and Algebraic Statistics	<p>TANIGAWA Shin-ichi, Associate Professor, Graduate School of Information Science and Technology, The University of Tokyo</p> <p><b>Belgium</b> Fatemeh Mohammadi, Professor, Department of Mathematics, KU Leuven  <b>UK</b> Anthony Nixon, Professor, School of Mathematical Sciences, Lancaster University</p>
4 Adopting Sustainable Partnerships for Inclusive Embodied AI in Three-	ZHAO Moju, Lecturer, Departement of Mechanical Engineering, The University of Tokyo

	dimensional Space based on Aerial Robotics	<p><b>France</b> Macro Tognon, Inria Researcher, Inria Rennes</p> <p><b>Switzerland</b> Roland Siegwart, Professor, Department of Mechanical Engineering, ETH Zurich</p>
5	Enhancing Machine Performance and Reliability using Virtual Laboratory	<p>HARADA Kanako, Professor, Division of Biomedical Equipment and Biomaterials, Center for Disease Biology and Integrative Medicine, Graduate School of Medicine, The University of Tokyo</p> <p><b>Sweden</b> Andreas Archenti, Professor, Department of Production Engineering, Centre for Design and Management of Manufacturing Systems, KTH Royal Institute of Technology</p>

## ■ Biotechnology

	Project Title	<b>Japan-side Principal Investigator</b>
		<b>Partner Principal Investigators</b>
1	Development of peptide-based new antibiotics against antimicrobial resistance	<p>SUGIHARA Kaori, Associate Professor, Institute of Industrial Science, The University of Tokyo</p> <p><b>Portugal</b> Miguel Castanho, Professor, School of Medicine, University of Lisbon</p> <p><b>Spain</b> Judit Guasch Camell, Tenured Scientist, Materials Science Institute of Barcelona (ICMAB), Spanish National Research Council (CSIC)</p> <p><b>Switzerland</b> Jinghui Luo, Principal Investigator, Laboratory for Multiscale Bioimaging, Paul Scherrer Institute</p> <p><b>UK</b> Chris Lorenz, Professor, Department of Engineering, King's College London</p>
2	Innovative nutrient management via regenerative environmental restoration and upcycling	TERADA Akihiko, Professor, Institute of Engineering, Tokyo University of Agriculture and Technology

	technologies	<p><b>Germany</b> Susanne Lackner, Professor, Faculty of Civil and Environmental Engineering, Technical University of Darmstadt</p> <p><b>US</b> Gary Stacey, Curators' Distinguished Professor, Division of Plant Sciences and Technology, University of Missouri</p>
3	Building an International Research Network on Intracellular Supramolecular Chemistry	<p>MIKI Takayuki, Project Lecturer, Graduate School of Engineering, The University of Tokyo</p> <p><b>Germany</b> Viktorija Glembockyte, Group Leader, Max Planck Institute for Medical Research</p> <p><b>Italy</b> Alessandro Bertucci, Associate Professor, Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma</p>
4	Engineering Biology for Promotion of High-order Protein Folding	<p>MURAOKA Takahiro, Professor, Graduate School of Engineering, Tokyo University of Agriculture and Technology</p> <p><b>Australia</b> Gottfried Otting, Emeritus Professor, Research School of Chemistry, Australian National University</p> <p><b>Germany</b> Johannes Buchner, Professor, Technical University Munich</p> <p><b>Italy</b> Roberto Sitia, Professor, Università Vita-Salute San Raffaele</p> <p><b>US</b> Ayyalusamy Ramamoorthy, Professor, Florida State University</p>
5	Establishing the bioeconomy basis by utilizing protein megacomplex from non-model microorganisms	<p>WATANABE Tomohiro, Associate Professor, Institute of Low Temperature Science, Hokkaido University</p> <p><b>Germany</b> Jan Schuller, Group Leader, Center for Synthetic Microbiology, Philipps-Universität Marburg</p>

■ Energy

Project Title	Japan-side Principal Investigator
	Partner Principal Investigators
1 Establishing a Global Research Hub for Synergistic Battery–Electrolysis Technologies	<p>TATARA Ryoichi, Associate Professor, Faculty of Engineering, Yokohama National University</p> <p><b>Germany</b> Ulrike Krewer, Professor, Institute for Applied Materials– Electrochemical Technologies, Karlsruhe Institute of Technology  <b>Netherlands</b> Ruud Kortlever, Associate Professor, Department of Process &amp; Energy, Delft University of Technology  <b>US</b> Graham Leverick, Assistant Professor, Department of Chemical and Biological Engineering, Tufts University  <b>US</b> Jeffrey Lopez, Assistant Professor, Department of Chemical and Biological Engineering, Northwestern University</p>
2 Development of Next-Generation Catalysts for Hydrogen Energy through the Establishment of a Sustainable International Research Ecosystem	<p>TODOROKI Naoto, Professor, Graduate School of Environmental Studies, Tohoku University</p> <p><b>Germany</b> Fabio Dionigi, Scientist, Institute of Chemistry, Technische Universität Berlin  <b>Germany</b> Peter Strasser, Full professor, Institute of Chemistry, Technische Universität Berlin  <b>South Korea</b> Taeghwan Hyeon, Professor, School of Chemical and Biological Engineering, Seoul National University  <b>US</b> Jian Xie, Professor, School of Mechanical Engineering, Purdue University  <b>US</b> Zhenhua Zeng, Research Assistant Professor, Department of Chemistry, Purdue University</p>

■ Material

Project Title		Japan-side Principal Investigator
		Partner Principal Investigators
1	Building a next-generation international network for the creation of ultra-high-performance iontronics-based neuromorphic systems	<p>TSUCHIYA Takashi, Group Leader, Research Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS)</p> <p><b>France</b> Liza Herrera Diez, CNRS Research Director, Centre for Nanoscience and Nanotechnology, CNRS-Université Paris Saclay</p> <p><b>Germany</b> Ilia Valov, Head of Group Nanoelectrochemistry (Professor), Peter Gruenberg Institute, Research Centre Juelich</p> <p><b>Italy</b> Francesco Rossella, Associate Professor, Group leader, Head of Laboratory, Dipartimento di Scienze Fisiche, Informatiche e Matematiche, Università degli studi di Modena e Reggio Emilia (UNIMORE)</p> <p><b>Spain</b> Juan Bisquert, Distinguished Researcher, Instituto de Tecnología Química (Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas)</p>
2	Epitaxy, Processing, and 3D Integration of P-type Two-Dimensional (2D) Semiconductors	<p>TUNG Vincent, Professor, Department of Chemical System Engineering, The University of Tokyo</p> <p><b>US</b> Jeehwan Kim, Associate Professor, Department of Mechanical Engineering Massachusetts Institute of Technology</p>

■ Quantum

Project Title		Japan-side Principal Investigator
		Partner Principal Investigators
1	Realization of spin qubits using floating electrons on solid neon	<p>KAWAKAMI Erika, RIKEN Hakubi Team Leader, RIKEN Center for Quantum Computing, RIKEN</p> <p><b>Germany</b> Mónica Benito, Professor, Institute of Physics, University of Augsburg</p> <p><b>US</b> Dafei Jin, Associate Professor, Department of Physics and Astronomy, University of Notre Dame</p> <p><b>US</b> Xianjing Zhou, Assistant Professor, National High Magnetic</p>

		Field Laboratory, FAMU-FSU College of Engineering, Department of Mechanical and Aerospace Engineering, Florida State University
2	International joint development of a next-generation ion trap quantum computer	TAKAHASHI Hiroki, Assistant Professor, Okinawa Institute of Science and Technology Graduate University
		<b>Germany</b> Ferdinand Schmidt-Kaler, Professor, Johannes Gutenberg University of Mainz

## ■ Semiconductors

	Project Title	Japan-side Principal Investigator
		Partner Principal Investigators
1	Complementary Oxide-Semiconductor Platform: LSI-TFT Integration via International Talent Mobility and Circulation	IDE Keisuke, Assistant Professor, Institute of Integrated Research, Institute of Science Tokyo  <b>South Korea</b> Junghwan Kim, Assistant Professor, Graduate School of Semiconductor Materials and Devices Engineering, Ulsan National Institute of Science and Technology <b>US</b> NOMURA Kenji, Associate Professor, Department of Electrical and Computer Engineering, University of California San Diego

## ■ Telecommunications

	Project Title	Japan-side Principal Investigator
		Partner Principal Investigators
1	Advancing Small-Satellite Wireless Communication through Global Brain Circulation and Research-Talent Hub Development	TOMURA Takashi, Associate Professor, Department of Electrical and Electronic Engineering, Institute of Science Tokyo  <b>Netherlands</b> Masoud Babaie, Associate Professor, Department of Microelectronics, Delft University of Technology <b>Sweden</b> Andrés Alayón Glazunov, Associate Professor, Linköping University <b>UK</b> Alan Tennant, Professor, School of Electrical and Electronic Engineering, The University of Sheffield

\*Titles omitted. Affiliations and titles are as of December 2025. Partner Principal Investigators are listed in alphabetical order by country name.