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JST announces 17 additional Project Managers selected for the Moonshot Goals 6, 9 and 10 of the Moonshot Research and Development Program

The Japan Science and Technology Agency (JST) has announced the Project Managers (PMs) selected for the Moonshot Goals 6, 9 and 10 handled by JST under the Moonshot Research and Development Program.
The program pursues challenging R&D concepts set by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) in order to solve issues facing our future society such as super-aging populations and global warming. Each of the Moonshot Goals has a Program Director (PD), under which PMs formulate an R&D scenario, design a project, and plan and manage the organization of R&D to achieve their respective Moonshot Goals. Open calls were held, and applications were reviewed by PDs in cooperation with external experts.
R&D for Moonshot Goals 6, 9 and 10 started, but in order to achieve each Moonshot Goal, R&D projects have now been added. Open calls for new projects were held for each Moonshot Goal, and a total of 64 applications were received. Applications were reviewed by PDs in cooperation with external experts, after which document and interview screening was conducted to make a final selection of 17 PMs. Under the direction of their PD, selected PMs will refine their plans to achieve their Moonshot Goal so that the R&D will be more effective and efficient. Once they have received PD approval, each PM can begin their R&D project.

For details, please refer to the website below.
https://www.jst.go.jp/moonshot/en/index.html

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“Empowering Science, Inspiring Futures”

Our world faces unprecedented global challenges — such as climate change, energy crises, and emerging infectious diseases — that demand innovative solutions. JST will rise to these challenges through “ Science and Technology, ” as a national research and development agency that plays a central role in implementing Japan’s science, technology, and innovation policy. We support fundamental research and startups to create new value, develop R&D strategies, foster the next generation of talent, disseminate vital information, and manage the Japan University Fund. Like a compass guiding ships through turbulent waters, JST will chart the way towards a vibrant and secure future by empowering science through a multifaceted approach.

Appendix 1

Number of applications and selected PMs

Moonshot Goal title	Application	Selected
Moonshot Goal 6 Realization of a fault-tolerant universal quantum computer that will revolutionize economy, industry, and security by 2050. (PD: KITAGAWA Masahiro)	10	9
Moonshot Goal 9 Realization of a mentally healthy and dynamic society by increasing peace of mind and vitality by 2050. (PD: KUMAGAI Seiji)	25	1
Moonshot Goal 10 Realization of a dynamic society in harmony with the global environment and free from resource constraints, through diverse applications of fusion energy, by 2050. (PD: YOSHIDA Zensho)	29	7
Total	64	17

Appendix 2

Selected PMs and projects

Moonshot Goal 6: Realization of a fault-tolerant universal quantum computer that will revolutionize economy, industry, and security by 2050.

Project Manager	Affiliation	Project Title
OHMORI Kenji	Professor / Chairman, Department of Photo-Molecular Science, Institute for Molecular Science, National Institutes of Natural Sciences	Neutral Atom-Based Fault-Tolerant Quantum Computer
KOASHI Masato	Professor, Graduate School of Engineering, The University of Tokyo	Research and Development of Theory and Software for Fault-Tolerant Quantum Computers
KOBAYASHI Kazutoshi	Professor, Department of Electrical and Electronic Engineering, Kyoto Institute of Technology	Development of a Scalable, Highly Integrated Quantum Error Correction System
TAKAHASHI Hiroki	Assistant Professor, Experimental Quantum Information Physics Unit, Okinawa Institute of Science and Technology Graduate University	Fault-Tolerant Quantum Computer Enabled by Scalable Functionally Integrated Ion Traps and Multiplexed Photonic Interconnects
TARUCHA Seigo	Group Director, RIKEN Center for Emergent Matter Science / Team Director, RIKEN Center for Quantum Computing	Development of Fault-Tolerant Silicon Quantum Computers
FURUSAWA Akira	Professor, School of Engineering, The University of Tokyo / Deputy Director, RIKEN Center for Quantum Computing / Co-founder & Director, OptQC Corp.	Development of Fault-Tolerant All-Optical Quantum Computers
MITARAI Kosuke	Associate Professor, Center for Quantum Information and Quantum Biology, The University of Osaka	Application Research and Development for Fault-Tolerant Quantum Computers
YAMAMOTO Takashi	Professor, Graduate School of Engineering Science / Deputy Director, Center for Quantum Information and Quantum Biology, The University of Osaka	Fault-Tolerant Networked Quantum Computers

YAMAMOTO Tsuyoshi	Joint Appointed Fellow, Global Research and Development Center for Business by Quantum-AI technology, The National Institute of Advanced Industrial Science and Technology (AIST)	Development of Superconducting Fault-Tolerant Quantum Computer Systems

Moonshot Goal 9: Realization of a mentally healthy and dynamic society by increasing peace of mind and vitality by 2050.

Project Manager	Affiliation	Project Title
AMANO Kaoru	Professor, Graduate School of Information Science and Technology, The University of Tokyo	Development of Motivation Control and Social Behavior Change Technology Through Sensory Stimulation

Moonshot Goal 10: Realization of a dynamic society in harmony with the global environment and free from resource constraints, through diverse applications of fusion energy, by 2050.

Project Manager	Affiliation	Project Title
OKADA Shinji	Professor, College of Science and Engineering, Chubu University	Innovative Muon-Catalyzed Fusion Technology for Practical Applications
OZAWA Tohru	Professor, School of Advanced Science and Engineering, Waseda University	Innovation in the Formulation and Solution Methods of Mathematical Models to Transform the Paradigm of Fusion Research
SAITOH Haruhiko	Associate Professor, Graduate School of Frontier Sciences, The University of Tokyo	Interdisciplinary Development of Advanced Fusion and Antimatter Science Using Superconducting Dipoles
TANAKA Hideki	Professor, Institute for Aqua Regeneration, Shinshu University	Development of Innovative Isotope Separation System for the Realization of Compact Fusion Fuel Cycle
TANIGAWA Hiroyasu	Deputy Director, Department of Blanket Systems Research, Rokkasho Institute for Fusion Energy, National Institutes for Quantum Science and Technology	Development of Autonomous In-Vessel Component for Compact Fusion Reactor

FUJIOKA Shinsuke	Professor, High Energy Density Science Research Division, Institute of Laser Engineering, The University of Osaka / Director, Blue Laser Fusion Energy Collaborative Research Institute	Fusion Reactor Using Optical Enhancement Cavity Laser
MORI Yoshitaka	Founding Board Director, EX-Fusion Inc.	Development of Inertial Fusion Modules Powered by Blue-Violet Semiconductor Lasers

* The titles of the projects are subject to change after refinement.

Appendix 3

Experts for the evaluation

Moonshot Goal 6: Realization of a fault-tolerant universal quantum computer that will revolutionize economy, industry, and security by 2050.

(Honorifics omitted; affiliations and positions are correct as of the end of the selection process)

	Name	Affiliation
Program Director (PD)	KITAGAWA Masahiro	Director, Center for Quantum Information and Quantum Biology, The University of Osaka
External Experts	KOZUMA Mikio *	Director / Professor, Quantum Navigation Research Center, Institute of Integrated Research, Institute of Science Tokyo
	NAKAMURA Yasunobu *	Professor, Graduate School of Engineering, The University of Tokyo
	YAMASHITA Shigeru *	Professor, College of Information Science and Engineering, Ritsumeikan University
	ISHIUCHI Hidemi	Former President, Evolving nano process Infrastructure Development Center (EIDEC), Inc.,
	IMOTO Nobuyuki	Senior Professor, Office of Senior Professor, The University of Tokyo
	UTSUNOMIYA Shoko	Principal Solutions Engineer, Go To Market, OpenAI Japan LLC.
	OZAWA Masanao	Professor Emeritus, Graduate School of Informatics, Nagoya University
	KATORI Hidetoshi	Professor, Department of Applied Physics Graduate School of Engineering, The University of Tokyo
	KAWABATA Shiro	Professor, Faculty of Computer and Information Sciences, Hosei University / Fellow, Technology and Innovation Strategy Center, NEDO
	SASAKI Masahide	Distinguished Researcher, Open Innovation Promotion Headquarters, National Institute of Information and Communications Technology
	SATO Mitsuhisa	Specially Appointed Professor, Faculty of Health Data Science, Juntendo University

	SHIGEMOTO Isamu	Executive Engineer, Technology and Innovation Center, Daikin Industries, Ltd.

*Sub Program Director

Moonshot Goal 9: Realization of a mentally healthy and dynamic society by increasing peace of mind and vitality by 2050.

(Honorifics omitted; affiliations and positions are correct as of the end of the selection process)

	Name	Affiliation
Program Director (PD)	KUMAGAI Seiji	Professor, Institute for Future Human and Social Studies, Kyoto University
External Experts	INOKUCHI Kaoru *	Distinguished Professor, Department of Biochemistry, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama
	NAGATA Tomoya *	Managing Partner, D3 LLC
	NISHIDA Shin'ya *	Professor, Graduate School of Informatics, Kyoto University
	MORITA Akira *	Professor Emeritus, The University of Tokyo
	ENDO Kaoru	Professor Emeritus, Gakushuin University
	OSAKA Naoyuki	Professor Emeritus, Kyoto University
	SAKURAI Takeshi	Professor, Faculty of Medicine, University of Tsukuba
	DOYA Kenji	Professor, Neural Computation Unit, Okinawa Institute of Science and Technology
	HAYASHI-TAKAGI Akiko	Team Leader, Center for Brain Science, RIKEN
	HORI Koichi	Executive Director, National Institutes for the Humanities
	MIURA Asako	Professor, Graduate School of Human Sciences, The University of Osaka

	MURAI Toshiya	Professor, Graduate School of Medicine, Kyoto University
	YOKOSAWA Kazuhiko	Distinguished Professor, Economics and Informatics Department, Japan International University
	ISHIDA Mitsunori	Professor, Faculty of Letters, Arts and Sciences School of Culture, Media and Society, Waseda University
	ICHINOHE Noritaka	Director, Department of Ultrastructural Research, National Center of Neurology and Psychiatry
	KAMEDA Tatsuya	Professor, Mathematical Informatics, Meiji Gakuin University
	KOBAYASHI Masahiro	Senior Parnter Attorney, Hanamizuki Law Office
	TORIUMI Fujio	Professor, The Graduate School of Engineering, The University of Tokyo
	MASUMOTO Kouhei	Professor, Graduate School of Human Development and Environment, Kobe University

*Sub Program Director

Moonshot Goal 10: Realization of a dynamic society in harmony with the global environment and free from resource constraints, through diverse applications of fusion energy, by 2050.

(Honorifics omitted; affiliations and positions are correct as of the end of the selection process)

	Name	Affiliation
Program Director (PD)	YOSHIDA Zensho	Director General, National Institute for Fusion Science, National Institutes of Natural Sciences
External Experts	YAMADA Hiroshi *	Director General, National Institute for Fusion Science, National Institutes of Natural Sciences
	ANDO Akira	Specially Appointed Professor, Advanced Graduate School, Tohoku University
	UEDA Yoshio	Professor, Department of Electrical and Electronic Engineering, Faculty of Science and Engineering, Otemon Gakuin University

	KASHIWAGI Mieko	Senior Researcher, Naka Institute for Fusion Science and Technology, National Institute for Quantum Science and Technology
	KAWAUCHI Tetsuya	Deputy Director-General, Headquarters of the Quantum Science and Technology Agency
	KONDO Hiroko	Representative of Matrix K,LLC
	TSUNETA Saku	Director, Astronomy Research Center, Chiba Institute of Technology
	HATTORI Kenichi	Representative of Helicity X
	MORII Takashi	Professor, Department of Health and Nutrition, Kyoto Koka Women's University
	YAMAZAKI Yasunori	Senior Visiting Scientist, RIKEN
	YAMADA Michio	Project Professor, RIMS, Kyoto University

*Sub Program Director

Reference

Viewpoints in Selection

Our selection was based on the following viewpoints and made in a comprehensive manner.

1. Nature as a PM
   - To have a wide human network of relevant researchers within and outside of Japan and to possess specialized knowledge.
   - To have the ability for management to construct an optimum R&D institution and review the organization proactively, depending on the status of the progress (including those in relation to the management and usage of research data) and to have leadership ability.

2. R&D projects proposed by PM
   - Purpose and Intent
     The project must meet the objectives of the project and be expected to produce the results that the project aims to achieve.
   - Originality and Superiority
     The proposal must have originality and superiority based on domestic and international trends, etc.
   - Goals and Plan
     The goals to be achieved during the implementation period, the implementation plan, and the budget plan must be specific and appropriate.
   - Implementation System
     The proposal must have an implementation system that is optimized for the execution of the proposed activities.