

May 15, 2026

SUMIDA CORPORATION

Notice of Participation in Quantum Magnetic Sensor Project under Cabinet Office “BRIDGE” program

SUMIDA CORPORATION (hereafter the “Company”) announces that it decided to participate in the program” Broadband Diamond Quantum Magnetic Sensing for High-Sensitivity NMR and Practical Manufacturing Implementation” (Project management agency: National Institutes for Quantum Science and Technology (QST)), a measure under the Cabinet Office’s Programs for Bridging the Gap between R&D and the IDeal Society (Society 5.0) and Generating Economic and Social Value (BRIDGE), together with Kyoto University.

Details

1. Background and overview of participation in the project

Under the Programs for Bridging the Gap between R&D and the IDeal Society (Society 5.0) and Generating Economic and Social Value (BRIDGE), the Council for Science, Technology and Innovation (CSTI) sets priority tasks for turning individual government ministries’ research and development and other measures into innovations (that is, initiatives to bridge the gap between innovative technologies, etc., which are developed through measures including Cross-ministerial Strategic Innovation Promotion Program (SIP) and individual government ministries’ research and development, and the resolution of social issues and creation of new businesses), thus promoting not only research and development but also initiatives for solving social issues and other purposes, based on science, technology and innovation policies, including the Integrated Innovation Strategy.

The Company has been conducting joint research and development activities with Kyoto University for the practical application of quantum magnetic field sensing technologies. In 2023, the subject of the joint research project was selected under the Japan Science and Technology Agency (JST)’s Adaptable and Seamless Technology Transfer Program through target-driven R&D (A-STEP) (full-scale type). Kyoto University and the Company have accumulated a number of technologies concerning quantum magnetic field sensing systems and conducted research and development to move towards their practical application.

In recognition of the achievements of these activities, a new joint research and development structure was established in collaboration with the QST and Kyoto University under the BRIDGE program. With a view toward the practical application of quantum magnetic field sensing systems, the joint team will continue to accelerate its research and development activities to achieve the prompt implementation of the technology in society.

Name of the Measure:

Broadband Diamond Quantum Magnetic Sensing for High-Sensitivity NMR and Practical Manufacturing Implementation

R&D Manager:

Takeshi Ohshima, National Institutes for Quantum Science and Technology

Website of Cabinet Office, Government of Japan (Japanese only):

[BRIDGE Programs Adopted for FY 2026](#)
[Research and Technology Plan 2026](#)

2. Details of research and development project

This project aims to develop broadband diamond quantum magnetic sensing for high-sensitivity NMR and to establish its practical manufacturing implementation. Leveraging diamond nitrogen-vacancy (NV) center synthesis technologies possessed by QST and Kyoto University, together with high-sensitivity quantum magnetic sensing technologies developed by Kyoto University and the Company, this project aims to acquire weak NMR signals with high sensitivity across a broad frequency range under ambient temperature conditions, and to establish a manufacturing process toward future mass production and industrial utilization. This is expected to be an innovative technology that shortens NMR analysis time to one-tenth of what it is currently or less, and it will dramatically increase analysis efficiency and productivity in the field of chemistry.

3. Significance of the Company's participation and relationship to its medium-term strategy

In its Mid-term Business Plan, the Company laid out a key strategy of establishing itself in the top position in niche markets, mainly in cutting-edge areas, while making the most of its technological foundation in the domain of coil parts and modules that it has cultivated through its existing businesses.

By participating in this project, the Company will work to develop high-performance quantum magnetic field sensing systems that utilize our strengths in advanced coil technologies to commercialize a high value-added product at the subsystem level. It is expected that NMR systems incorporating this product will be used in a wide range of fields, including chemistry, pharmaceuticals, food, and agriculture. The expansion of the applications for this technology will result in the growth of the market.

Additionally, this technology will not remain confined to NMR applications. There are potential applications in the field of advanced physical measurement. The Company anticipates that the technology will facilitate the expansion of its business domains in the future. The Company's participation in this project is an opportunity for the company to continue its efforts to create new business opportunities in the highly promising technical area of quantum magnetic field sensing. The Company believes this initiative is one of its significant measures to steadily implement the growth strategies laid out in its Mid-term Business Plan.

4. Future outlook

In the future, in association with the implementation of this project, the Company will post related expenses and commissioned research expenses chiefly as research and development expenses and other income respectively. The Company expects that the impact of this matter on its financial results for the current fiscal year will be minor. The Company studies the future progress of its research and development activities and the potential for their commercialization from medium- and long-term perspectives. If any matter that should be disclosed arises, the Company will appropriately disclose information about it.

*1 NMR: Nuclear Magnetic Resonance

[Press Release on SUMIDA's website](#)

[Note on translation]

This is a translation of the original Japanese document and provided for informational purpose only. If there are any discrepancies between this and the original, the original Japanese document prevails.
