

Nomura Launches Joint Research on Quantum Computing

Tokyo, February 27, 2018—Nomura Holdings, Inc. today announced that it has launched a joint research project on quantum computing with Tohoku University. The firm will collaborate with Associate Professor Masayuki Ozeki to investigate whether quantum computing can be used to optimize the asset management services it provides to its clients.

Nomura plans to test the D-Wave machine, a quantum computer manufactured by Canada-based company D-Wave Systems, Inc.¹

Nomura has been working to harness artificial intelligence technologies to offer innovative solutions to clients and enhance business efficiency in a wide range of areas including asset management, trading, and research.

Data analysis techniques have become more sophisticated and big data analytics are increasingly being applied to such platforms as social media. As a result, the types of data processed by computers have become more varied and there is a need to increase the speed at which calculations are performed.

Nomura will conduct business experiments using the D-Wave machine, which leverages quantum computation to calculate at speeds far exceeding that of conventional computers. Many companies have started to incorporate the D-Wave machine into their businesses. Nomura is the first financial institution in Japan to test the machine in its business.

As part of its business experiments, Nomura will take advantage of the computing speed of the D-Wave machine to select an optimal mix of stocks to enhance the performance of clients' investment portfolios. It will also be used to make predictions on future stock prices. The firm's aim is to test the extent to which the machine increases the efficiency and accuracy of calculations.

Nomura will also look into the potential of quantum computing technology for other areas of the firm's business.

Nomura is dedicated to using technological innovations to provide higher quality services to its clients. Nomura will continue to investigate new technologies, and hire experienced people to implement them.

¹ D-Wave Systems is the first company in the world to sell commercial quantum computers.

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Nomura

Nomura is an Asia-headquartered financial services group with an integrated global network spanning over 30 countries. By connecting markets East & West, Nomura services the needs of individuals, institutions, corporates and governments through its four business divisions: Retail, Asset Management, and Wholesale (Global Markets and Investment Banking), and Merchant Banking. Founded in 1925, the firm is built on a tradition of disciplined entrepreneurship, serving clients with creative solutions and considered thought leadership. For further information about Nomura, visit www.nomura.com.