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For immediate release

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Technic joins MATQu – European based project for quantum computing hardware eco-system

Cranston, RI USA - Technic is proud to announce its commitment to the MATQu project, which aims to drive materials and technology options for quantum computing by bringing together leading European companies, academia, and consortia. As demand for complex computing and ever-increasing volumes of data continue to grow, quantum computing is a key emerging technology. Technic's breadth of technology offerings in electrochemistry and semiconductor surface preparation, cleaning and etching afford a unique opportunity to accelerate development in this exciting field.



“MATQu – Materials for Quantum Computing”, led by the joint business office of the Fraunhofer Group for Microelectronics and the Research

Fab Microelectronics Germany (GS VUE/FMD) as well as Fraunhofer IAF, started in June 2021 intending to support the creation of a Pan-European research infrastructure for advanced computing technologies. The project brings together world-class European research and technology organizations, industrial fabrication facilities, and leading application partners in the domain of solid-state qubits — a subject of intense global competition — to realize the vision of a European supply chain for materials and processes.

The project will create a European eco-system to expand the applicability of core components of solid-state qubits—such as Superconducting Josephson junctions (SJJs)—by improving materials, as well as processing and characterization technologies for quantum computing hardware. In the three-year project, SJJs is the primary use case as they are currently the most mature solid-state platform to realize stable superconducting qubits.

The main technical goal of the project “MATQu” is to improve and transfer materials and technologies for superconducting qubits from laboratories to the market. Several project partners have extensive infrastructures suited for this purpose and will contribute with their expertise in materials, process integration, and research to build robust and reproducible qubits. Industry-style fabrication infrastructures will allow optimizing process parameters and systematically improving the performance of superconducting qubits.

“As demand for complex computing and ever-increasing volumes of data continue to grow, quantum computing is a key emerging technology. Technic's breadth of offerings in electrochemistry and semiconductor surface preparation, cleaning and etching afford a unique opportunity to accelerate development in this exciting field.”

- **Douglas Holmes**, Global Business Development Manager of Semiconductor Technology

Technic supplies some of the most advanced solutions for semiconductor fabrication and packaging in the industry including electroplating chemistry, photoresist strippers, cleaners (post-etch residue removers), metal etchants, and high purity wet chemistry, as well as manufacturing equipment and analytical controls.

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About Technic

For over 75 years, Technic has been a global supplier of specialty chemicals, custom finishing equipment, engineered powders, and analytical control systems to the semiconductor, electronic component, printed circuit board, industrial finishing, and decorative industries. Technic is also a major supplier of engineered metal powders to the solar industry.