

Subject Company: Supernova Partners Acquisition Company II, Ltd.
Commission File No. 001-40140
Date: January 27, 2022

Rigetti Computing Selected to Deliver Technology for Phase 2 of DARPA ONISQ Program

BERKELEY, Calif., Jan. 27, 2022 (GLOBE NEWSWIRE) — Rigetti Computing, a pioneer in hybrid quantum-classical computing systems, announced today it has been selected to deliver hardware, software and benchmarks for phase two of a DARPA (Defense Advanced Research Projects Agency) program to develop quantum computers capable of solving complex optimization problems. In collaboration with the Universities Space Research Association (USRA), and through DARPA, under DARPA-NASA Interagency agreement (IAA) 8839 Annex 114, with the NASA Quantum Artificial Intelligence Laboratory (QuAIL), the company's selection is based on its successful completion of performance milestones, underpinned by Rigetti's continued development of its scalable chip technology and advanced programming tools.

"Working with our partners at NASA and USRA to deliver on ONISQ (Optimization with Noisy Intermediate-Scale Quantum) phase one has advanced our capabilities in hardware, software, and applications, demonstrating the benefits of both our partnering strategy and our vertically integrated approach to developing quantum computers," said Rigetti founder and CEO Chad Rigetti. "Using an operationally relevant customer problem as a guidepost has led to significant full-stack innovation, including in chip technologies, advanced gate calibration, and quantum programming features that we're now able to deliver more broadly to users through our Quantum Cloud Services platform."

The work focuses on solving a class of complex scheduling problems, which have important implications for national security, such as real-time strategic asset deployment, as well as commercial applications including global supply chain management, network optimization, and vehicle routing. The goal of the collaboration is to deliver a full-stack solution with a proven quantum advantage over classical techniques.

Leveraging Rigetti's Fab-1, the industry's first dedicated and integrated quantum device manufacturing facility, the program was supported by the ongoing development of key chip technologies underpinning the company's innovative modular quantum processor architecture, which it announced last year.

In addition, work under the program has led to the demonstration of advanced programming tools and compiler technology, including more expressive logic gates on Rigetti's 32-qubit quantum processors. Among them is the industry's first implementation of a programmable 3-qubit gate, which maps directly to classically hard sampling problems and may enable quantum computers to outperform classical computers on these tasks.

In the second phase of the program, the team will continue to develop and test the scheduling application at increasing scale, including with Rigetti's 80-qubit modular quantum processor that the company announced in December 2021. The NASA and USRA collaborators will perform application benchmarking against high-performance classical computers to determine whether the approach has a provable quantum advantage compared to known techniques.

This work is part of the DARPA ONISQ program. The goal of the program is to establish that quantum information processing using NISQ devices has a quantitative advantage for solving real-world combinatorial optimization problems as compared with the best currently known classical methods.

See associated press release at [USRA](#).

About Rigetti Computing

Rigetti Computing is a pioneer in full-stack quantum computing. The company has operated quantum computers over the cloud since 2017 and serves global enterprise, government, and research clients through its Rigetti Quantum Cloud Services platform. The company's proprietary quantum-classical infrastructure provides ultra-low latency integration with public and private clouds for high-performance practical quantum computing. Rigetti has developed the industry's first multi-chip quantum processor for scalable quantum computing systems. The company designs and manufactures its chips in-house at Fab-1, the industry's first dedicated and integrated quantum device manufacturing facility. Rigetti was founded in 2013 by Chad Rigetti and today employs more than 140 people with offices in the United States, U.K., and Australia.

Rigetti Computing announced in October it has entered into a definitive merger agreement with Supernova Partners Acquisition Company II, Ltd. ("Supernova II") (NYSE:SNII), a publicly traded special purpose acquisition company. When the transaction closes, the publicly traded company will be named Rigetti Computing, Inc. and its common stock is expected to be listed on the NYSE under the ticker "RGTI." Learn more at www.rigetti.com.

Additional Information and Where to Find It

Supernova Partners Acquisition Company II ("Supernova") (NYSE: SNII) has filed a registration statement on Form S-4 with the Securities Exchange Commission (the "SEC"), which includes a proxy statement/prospectus, that will be both the proxy statement to be distributed to holders of Supernova's common shares in connection with its solicitation of proxies for the vote by Supernova's shareholders with respect to the proposed business combination and other matters as may be described in the registration statement, as well as the prospectus relating to the offer and sale of the securities to be issued in the business combination. After the registration statement is declared effective, Supernova will mail a definitive proxy statement/prospectus and other relevant documents to its shareholders. This communication does not contain all the information that should be considered concerning the proposed business combination and is not intended to form the basis of any investment decision or any other decision in respect of the business combination. Supernova's shareholders and other interested persons are advised to read, when available, the preliminary proxy statement/prospectus included in the registration statement and the amendments thereto and the definitive proxy statement/prospectus and other documents filed in connection with the proposed business combination, as these materials will contain important information about Rigetti Holdings, Inc. ("Rigetti"), Supernova and the business combination. When available, the definitive proxy statement/prospectus and other relevant materials for the proposed business combination will be mailed to shareholders of Supernova as of a record date to be established for voting on the proposed business combination. Shareholders will also be able to obtain copies of the preliminary proxy statement, the definitive proxy statement and other documents filed with the SEC, without charge, once available, at the SEC's website at www.sec.gov, or by directing a request to Supernova's secretary at 4301 50th Street NW, Suite 300 PMB 1044, Washington, D.C. 20016, (202) 918-7050.

Participants in the Solicitation

Supernova and its directors and executive officers may be deemed participants in the solicitation of proxies from Supernova's shareholders with respect to the proposed business combination. A list of the names of those directors and executive officers and a description of their interests in Supernova is contained in Supernova's prospectus dated March 3, 2021 relating to its initial public offering, which was filed with the SEC and is available free of charge at the SEC's website at www.sec.gov. To the extent such holdings of Supernova's securities may have changed since that time, such changes have been or will be reflected on Statements of Change in Ownership on Form 4 filed with the SEC. Additional information regarding the interests of such participants will be contained in the proxy statement/prospectus for the proposed business combination when available.

Rigetti and its directors and executive officers may also be deemed to be participants in the solicitation of proxies from the shareholders of Supernova in connection with the proposed business combination. A list of the names of such directors and executive officers and information regarding their interests in the proposed business combination will be included in the proxy statement/prospectus for the proposed business combination when available.

No Offer or Solicitation

This communication does not constitute (i) a solicitation of a proxy, consent or authorization with respect to any securities or in respect of the proposed business combination or (ii) an offer to sell, a solicitation of an offer to buy, or a recommendation to purchase any security of Supernova, Rigetti, or any of their respective affiliates.

Forward-Looking Statements

Certain statements in this communication may be considered forward-looking statements. Forward-looking statements generally relate to future events and can be identified by terminology such as "pro forma", "may", "should", "could", "might", "plan", "possible", "project", "strive", "budget", "forecast", "expect", "intend", "will", "estimate", "anticipate", "believe", "predict", "potential" or "continue", or the negatives of these terms or variations of them or similar terminology. Such forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forward looking statements. These forward-looking statements are based upon estimates and assumptions that, while considered reasonable by Supernova and its management, and Rigetti and its management, as the case may be, are inherently uncertain. Factors that may cause actual results to differ materially from current expectations include, but are not limited to: the outcome of any legal proceedings that may be instituted against Supernova, Rigetti, the combined company or others following the announcement of the business combination and any definitive agreements with respect thereto; the inability to complete the business combination due to the failure to obtain approval of the shareholders of Supernova or to satisfy other conditions to closing; changes to the proposed structure of the business combination that may be required or appropriate as a result of applicable laws or regulations or as a condition to obtaining regulatory approval of the business combination; the ability to meet stock exchange listing standards following the consummation of the business combination; the risk that the Business Combination

disrupts current plans and operations of Rigetti as a result of the announcement and consummation of the Business Combination; the ability to recognize the anticipated benefits of the business combination, which may be affected by, among other things, competition, the ability of the combined company to grow and manage growth profitably, maintain relationships with customers and suppliers and retain its management and key employees; costs related to the business combination; changes in applicable laws or regulations; the possibility that Rigetti or the combined company may be adversely affected by other economic, business, or competitive factors; Rigetti's estimates of expenses and profitability; the evolution of the markets in which Rigetti competes; the ability of Rigetti to implement its strategic initiatives, expansion plans and continue to innovate its existing services; the impact of the COVID-19 pandemic on Rigetti's business; and other risks and uncertainties set forth in the section entitled "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements" in the registration on Form S-4 and proxy statement/prospectus discussed above and other documents filed with Supernova from time to time with the SEC.

Nothing in this communication should be regarded as a representation by any person that the forward-looking statements set forth herein will be achieved or that any of the contemplated results of such forward-looking statements will be achieved. You should not place undue reliance on forward-looking statements, which speak only as of the date they are made. Neither Supernova nor Rigetti undertakes any duty to update these forward-looking statements.