



Press contact:

Julia Zimmerman

Tel.: 847-922-7951

Email: julia.zimmerman@capgemini.com

Capgemini announces new project with the Defense Advanced Research Projects Agency on quantum computing for energy transition

This project will leverage Capgemini's quantum lab to enhance carbon capture efficiencies

New York, May 29, 2024 – [Capgemini Government Solutions LLC](#) today announced a new initiative with [The Defense Advanced Research Projects Agency \(DARPA\)](#) to investigate the use of quantum computing in the field of carbon capture. Beyond pushing the boundaries of technological innovation, this project provides an opportunity for Capgemini to work alongside the U.S. government to advance sustainability efforts and promote a greener future. To support this work, Capgemini will leverage its engineering talent across the globe to navigate the complex ecosystem of carbon capture. As part of this agreement, Capgemini will offer the use of its specialist hybrid intelligence team's capabilities to tackle high-impact exploratory efforts and identify breakthrough technologies that can accelerate innovation and digital transformation.

DARPA's [Advanced Research Concepts](#) (ARC) topic, 'Imagining Practical Applications for a Quantum Tomorrow' (IMPAQT), will focus on exploring quantum algorithms. The goal of Capgemini's research is to better understand the predictive features of materials by leveraging quantum simulation. The results can be used in data-driven modeling for applications such as carbon capture and storage.

To support this project, Capgemini will provide a team of specialists with research backgrounds in quantum and computational chemistry and proficiency in applied modeling and simulation utilizing quantum computing. By furthering knowledge on metal organic frameworks, this collaboration offers greater diversity, flexibility, and optimization of carbon capture and storage and holds particular relevance for tackling current global challenges in sustainability.

"Capgemini's breadth of experience with quantum computing and hybrid intelligence, paired with our deep capabilities in carbon capture across the Group, enables partnerships with organizations like DARPA," said Khalid Sebti, Managing Director at Capgemini Engineering in The Americas. "Beyond pushing the boundaries of technological innovation, this collaboration is an opportunity for Capgemini to work alongside the US government to advance sustainability efforts and promote a greener future."

To further support the application of quantum computing, Capgemini has a dedicated [Quantum Lab](#) that helps clients to understand the potential of quantum technologies and develop strategies that help them make the shift. This lab brings together the combined expertise of a global network of quantum experts, partners, and specialist research facilities from across the Group.

About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over

55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2023 global revenues of €22.5 billion. Get The Future You Want | www.capgemini.com

About Capgemini Government Solutions LLC

Launched in 2002, Capgemini Government Solutions is a U.S. company based in McLean, Virginia. Capgemini partners with U.S. federal government organizations to bring the global public and private sector insight and experience required for mission transformation. Capgemini's U.S. federal business delivers enterprise and technology modernization solutions to our vast portfolio of Civilian, Health, National Security and Defense clients. Get the future you want with Capgemini Government Solutions.

Additional information on Capgemini Government Solutions is available at www.capgemini.com