

QUANTUM SCIENCES & TECHNOLOGIES

Guidance for the Next Quantum Revolution

boozallen.com/quantum

Progressing the fields of quantum sciences and technologies could bring about dramatic leaps in computing power. These increased processing speeds will catalyze revolutionary advancements in nearly every industry and discipline—communications, healthcare, materials engineering, manufacturing, finance, and national security all stand to gain.

Through legislation and executive action, the federal government is working to ensure U.S. leadership in the field of quantum information science. Booz Allen is committed to supporting this vision. We are already helping our clients understand how quantum computing will impact their missions and how early investment can secure a future advantage. We help organizations ensure that they remain ready to leverage the technology to its full potential as it continues to emerge. We can provide the same level of customized quantum support to your federal agency, national laboratory, or corporation.

Publications

- [Number-Theoretic Characterizations of Some Restricted Clifford+T Circuits](#)
- [Optimal two-qubit circuits for universal fault-tolerant quantum computation](#)
- [Effective Gaps Are Not Effective: Quasipolynomial Classical Simulation of Obstructed Stoquastic Hamiltonians](#)
- [Spectrally reconfigurable quantum emitters enabled by optimized fast modulation](#)
- [Quantum Algorithms and Applications](#)
- [Heterogeneous quantum computing for satellite constellation optimization: solving the weighted k-clique problem](#)
- [Quantum annealing for combinatorial clustering](#)

SERVICE OFFERINGS

QUANTUM STRATEGY

We understand the field of quantum computing as well as its intersections with other fields of interest such as quantum sensing, quantum communications, artificial intelligence, machine learning, and advanced analytics. We combine our knowledge and expertise from these many fields to understand their trajectory. As a trusted advisor, we help our clients understand how quantum technologies will impact their missions now and in the future.

QUANTUM RESEARCH

Basic and applied research drive downstream growth in cutting-edge technologies, including quantum. Our knowledge of this domain is driven by our own in-house research and our deep, academic expertise. We actively engage in and contribute to novel research and technical developments in quantum information science, making our team uniquely qualified to assist our clients with their own research.

QUANTUM TECHNICAL EXPERTISE SUPPORT

We combine decades of experience with our clients' missions with a rigorous practice in quantum research. This uniquely positions us to help our clients evaluate their own research and hardware at a deeply technical level, as well as to identify research gaps, and advise on future research priorities and needs.



Steve Escaravage
Artificial Intelligence Lead



JD Dulny



Isabella Martinez

OUR PEOPLE

Booz Allen's quantum team brings focused expertise in quantum sciences and technology to bear on the most critical problems of our clients. Through fundamental theoretical research, applied prototypes and pilots, and strategic consulting, we look to identify and fill capability gaps across the health, defense, civil, and commercial spaces.

ABOUT BOOZ ALLEN

For more than 100 years, business, government, and military leaders have turned to Booz Allen Hamilton to solve their most complex problems.