

Quantum Foundry Service

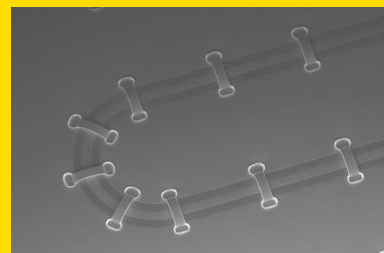
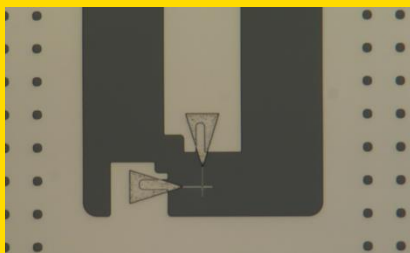
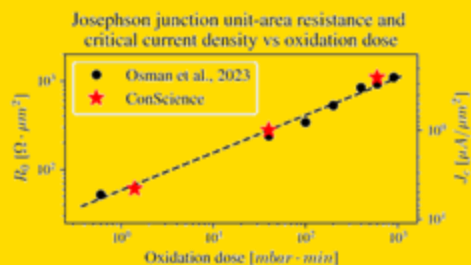
Quantum Foundry Service for Superconducting Quantum Devices

Offering

We specialize in the fabrication of superconducting quantum devices tailored to client-specific designs, achieving world-class coherence. Leveraging our expertise in Al/AlOx/Al Josephson junction (JJ) fabrication-an essential component of superconducting circuits for quantum computing - we ensure high parameter precision and exceptional yield. We have years of experience with foundry service for leading universities and industry. Our qubit manufacturing experience extends beyond the planar transmon fabrication; we can deliver different qubit architectures such as fluxonium qubits, alternative junction types including Manhattan-style or Dolan bridges, and complex structures for device integration.

Highlights

- High-performance qubits (T1 up to 256 μ s with an average of > 145 μ s, and Q > 2M)
- $\pm 10\%$ Josephson junction (JJ) size precision with > 90% yield over a 4-inch wafer
- JJ resistance ranging from 1 kOhm - 40 kOhm
- Complex structures such as air-bridges, under bump metallization (UBM), etc., for planar and 3D-integrated quantum chips.



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