## Superconducting Quantum Circuit Prototyping Facility Qufab

- Prototyping line for devices & circuits in superconducting quantum computers.
- Supports prototyping of superconducting qubits, circuits & 3D integration.
- From R&D to circuits prototyping for commercial apps.

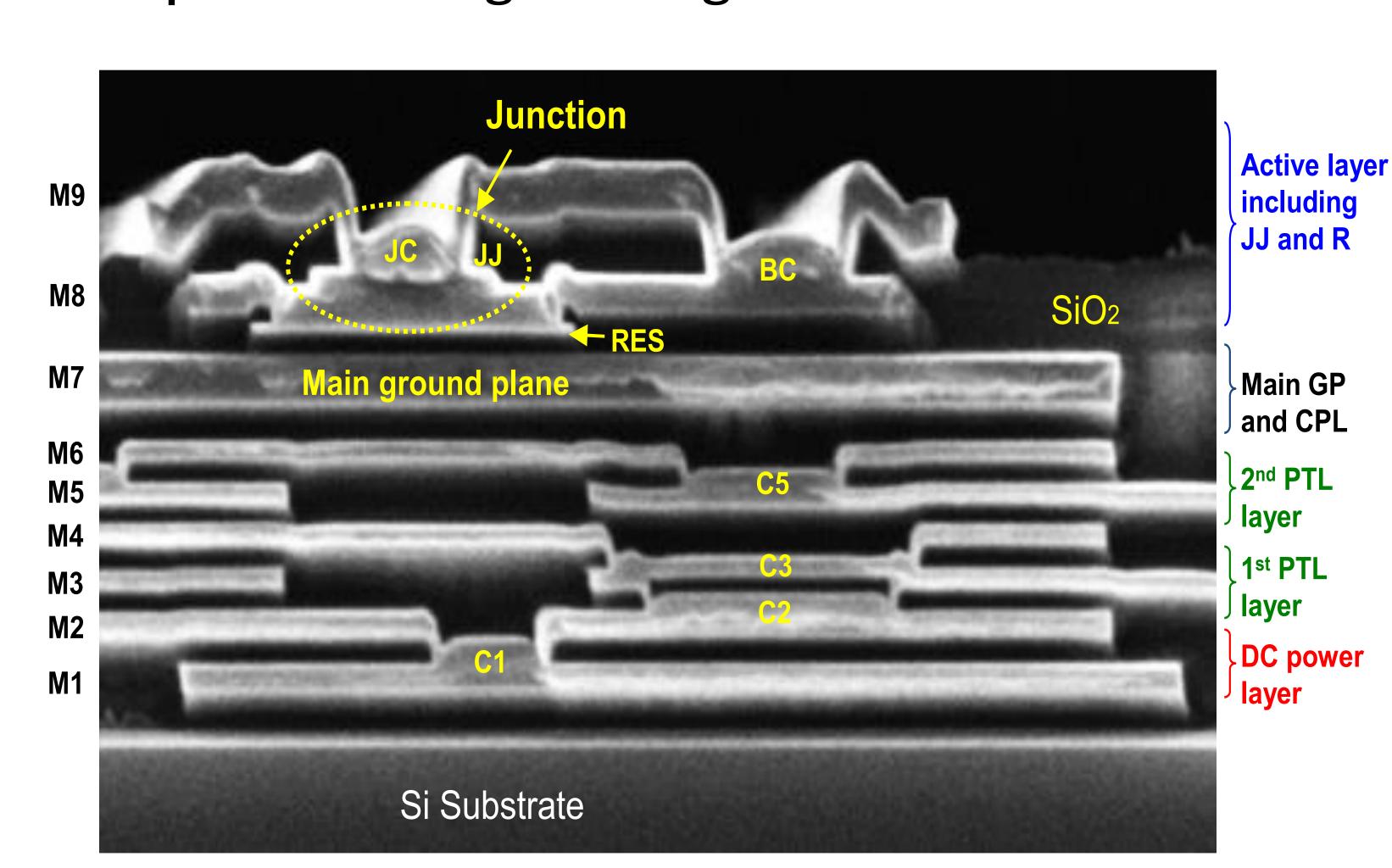
## Device Fabrication Service

- Cleanroom: 720 m², Class: Mainly 1000
- 4-inch prototyping line
- Key process and measurement equipment:50 units
- Thin film: Nb, Al, Pd, Mo, etc.
- Superconducting qubits fabricated by angled deposition
- i-line stepper and electron beam lithography (lithography down to 20 nm)
- Etching systems for fluorine- and chlorinebased processes, compatible with various materials



## Lineup of Prototyping Services

- 9-layer superconducting multilayer interconnects
- TSV (Through-Silicon Via)
- Superconducting bump bonding
- Superconducting 3D integration





FOR MORE INFORMATION & FACILITY ACCESS





