



300mm BTO PILOT LINE for high speed optical modulators



POEM is a pilot line developed by RIBER and the Novo Nordisk Foundation Quantum Computing Program / Niels Bohr Institute (NQCP/NBI) with the ambition to develop high speed, low loss optical switches — ideal for scaling optical quantum computing — overcoming the interconnect bottleneck, and adressing the elmentary bricks for other emerging sensing of computing applications.

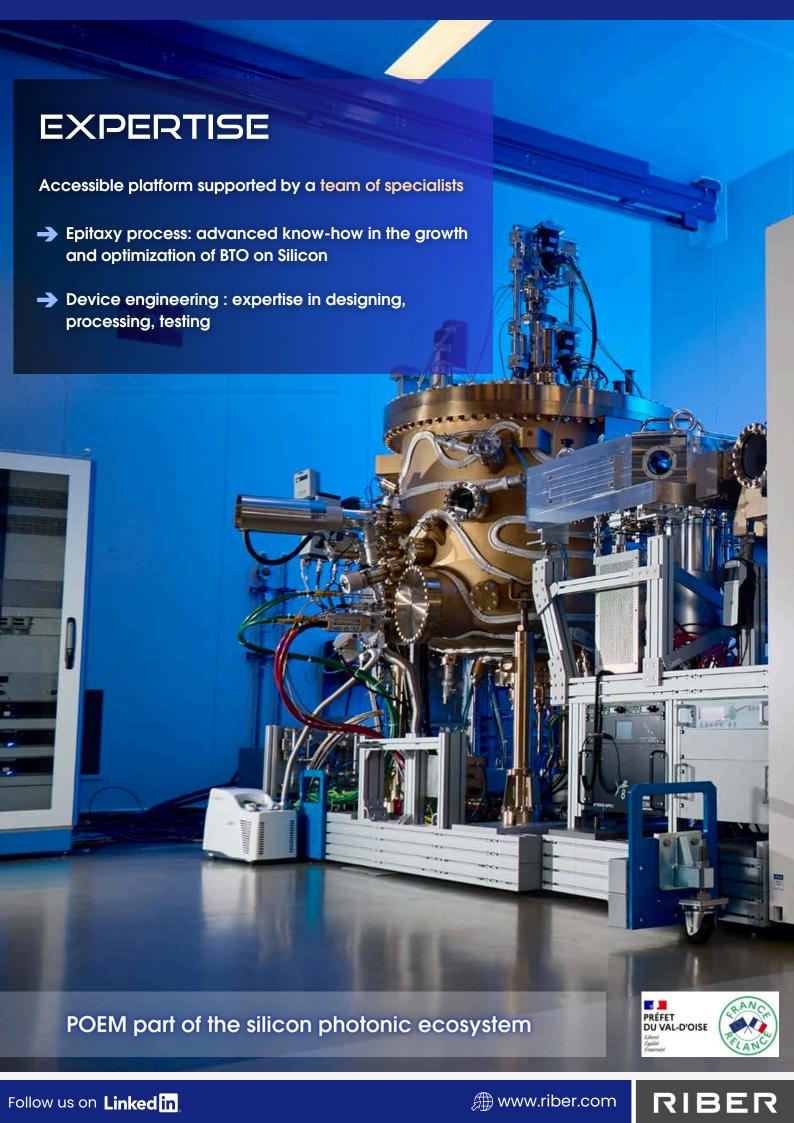
POEM, via RIBER's ROSIE tool (RIBER Oxide Silicon Epitaxy) — enhanced by NQCP/NBI device expertise — focuses on the deposition of an epitaxial thin film of BaTiO $_3$ on 300 mm silicon.











CAPABILITIES → ROSIE Tool: 300mm Silicon compatible. ROSIE FOUP to FOUP dedicated to the growth of BTO on Silicon Dedicated structural and device characterizations tools BENEFITS ROSIE's processes are aligned with international **SEMI standards** Evaluation-ready wafers : capability to supply epiwafers for testing and validation

Informations & contacts

About RIBER



Founded in 1964, RIBER is the global market leader for MBE - molecular beam epitaxy equipment.

It designs and produces equipment for the semiconductor industry and provides scientific and technical support for its clients (hardware and software), maintaining their equipment and optimizing their performance and output levels.

Accelerating the performance of electronics, RIBER's equipment performs an essential role in the development of advanced semiconductors that are used in numerous applications, from information technologies to photonics (lasers, sensors, etc.), 5G telecommunications networks and - 3 - research, including quantum computing.

RIBER is a BPI France-approved innovative company and is listed on the Euronext Growth Paris market (ISIN: FR0000075954).

About NQCP



Nordisk Foundation The Novo Quantum Computing Programme (NQCP) is a research initiative launched by the Novo Nordisk Foundation, in collaboration with the Niels Bohr Institute at the University of Copenhagen.

The program aims to develop a fault-tolerant quantum computing (FTQC) hardware and quantum algorithms that solve complex lifescience problems. NQCP takes interdisciplinary approach, exploring multiple qubit technologies to identify the most promising platform. It leverages a global network of academic and industrial partners.

The program also includes the creation of the Quantum Foundry Copenhagen, a facility dedicated to new manufacturing processes for high-precision quantum components, essential for the future generation of quantum computing processors.

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