

The Expanding World of Nanofabrication – *an update from NanoFabrication Kingston*

February 7, 2025

Good day,

You are receiving this important update as a user of NFK, as a supervisor of a user, or as someone who requested to receive these updates.

Reactive Ion Etcher

The turbo pump on the ICP-RIE has failed and requires repair. The current expected return date for the pump is ~Mar. 5. I will keep RIE users updated on the progress of the repair.

Upcoming fabrication schedule

The annual PHYS 860 fabrication projects will be running the first three weeks in March. I am also managing a large service project from now until June. If you find the QReserve calendar is full and you need to book some time, let me know and I might be able to move things around for you.

CFI application

A proposal to CFI was submitted this week. Led by Drs. Nir Rotenberg and Bhavin Shastri of the Physics Department at Queen's, the proposal known as "SPARQ" focuses on quantum devices and AI. Most of the infrastructure requested in the application is planned for installation at NFK, and if successful, the project would be truly transformative for our facility. We expect to hear a decision later this year. A special thanks goes out to Nir and Bhavin, along with project manager Jennifer Low and the team at the VPR's Office, for all their hard work over the past 1.5 years putting the proposal together.

See you at the lab!

Graham Gibson

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