

Facility Size m²: 360

No. of Technicians: 2

No. of Academic Users: 20

No. of Industry Users: 5

Materials: III-V, Si, Glass, 2D materials

Key Capabilities: Electron Beam Lithography, Dry etching, PECVD, ellipsometry, thermal processing.

Nanofabrication Nottingham is a cross departmental facility that is open to users from across the university and beyond. It is equipped with a wide range of equipment, and we are happy to help with your request no matter your nanofabrication knowledge.



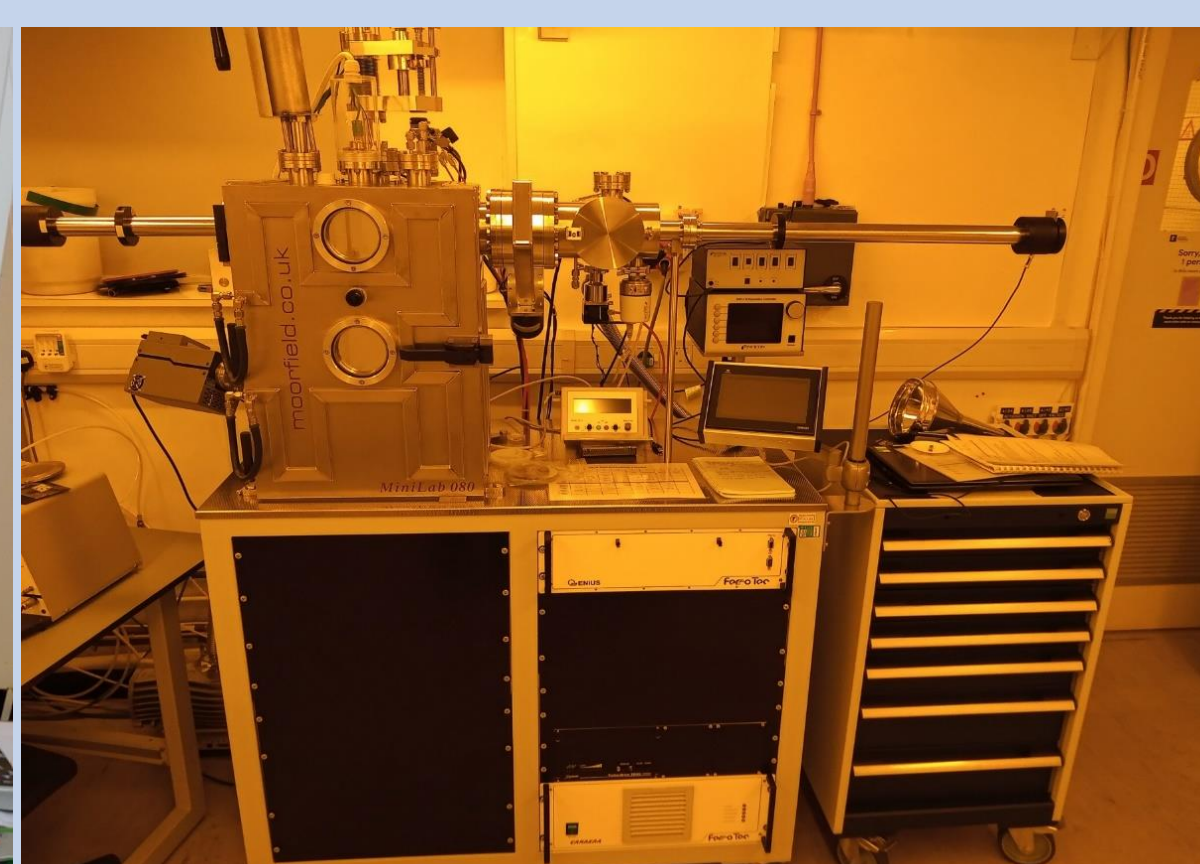
This poster is interactive, whenever you see this logo, you can scan it with an NFC enabled phone to find out more!



Lithography: Nanobeam nB5, Primo maskless photolithography, 2-suss mask aligners, Stensborg desktop NIL



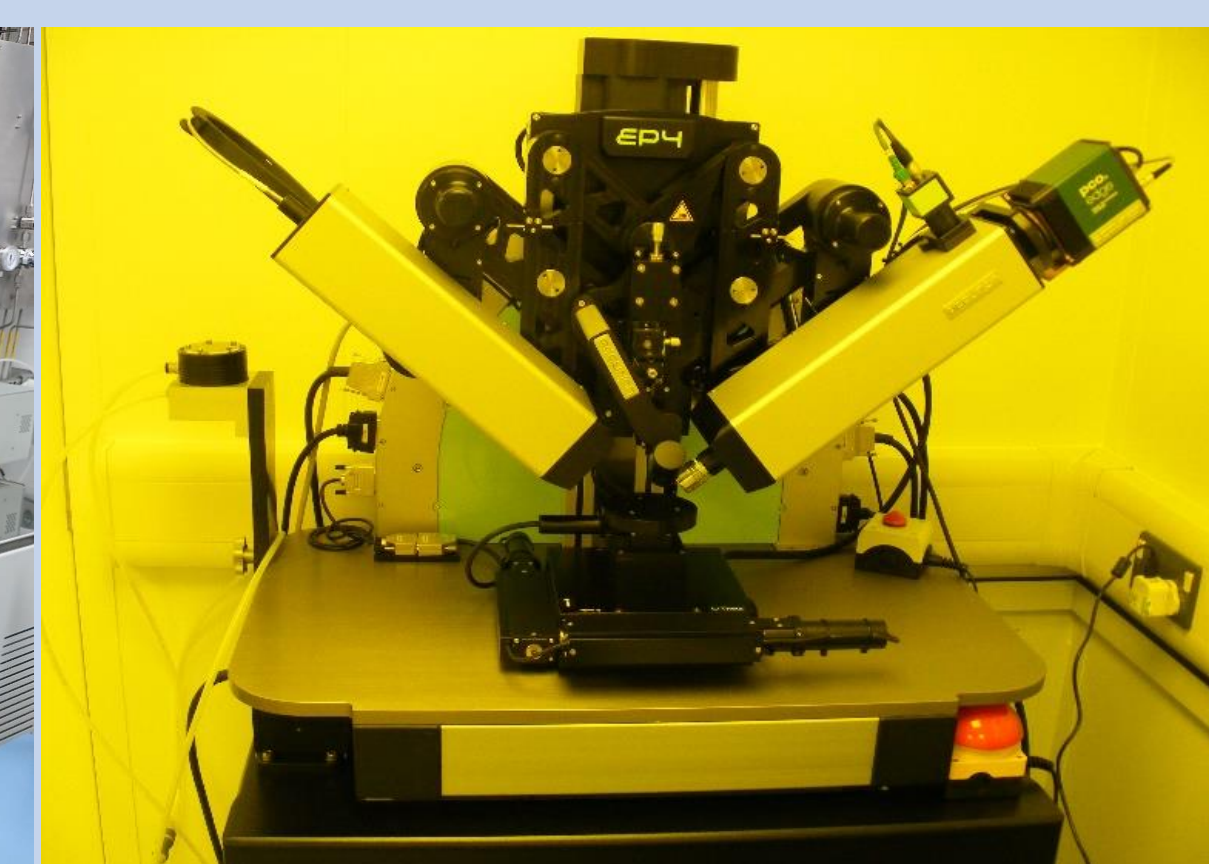
Thermal treatment: Carbolite Gero furnace, rapid thermal annealer, Purged hotplates



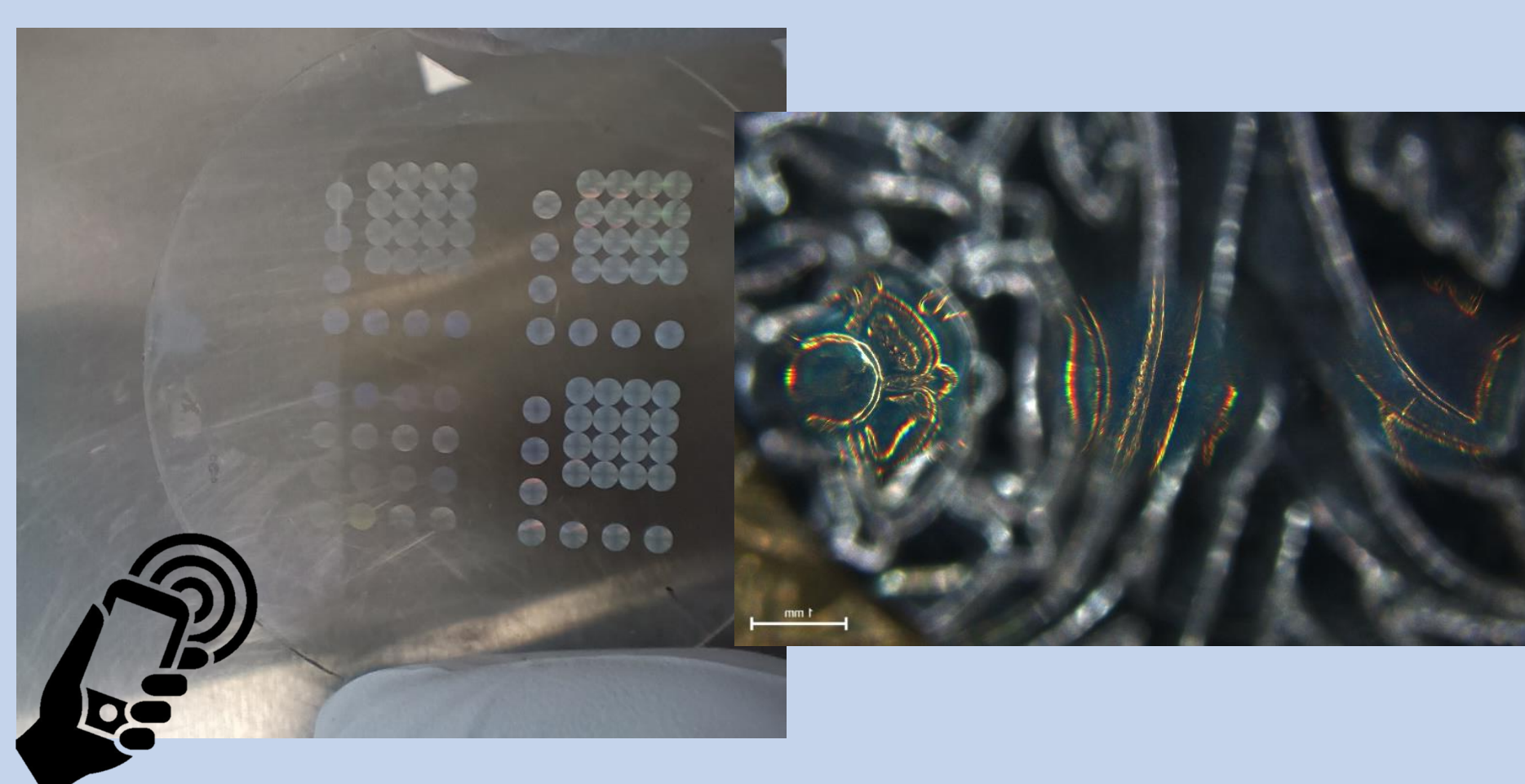
Deposition: Corial PECVD, Moorfields and Edwards thermal evaporators, Moorfield E-beam evaporator



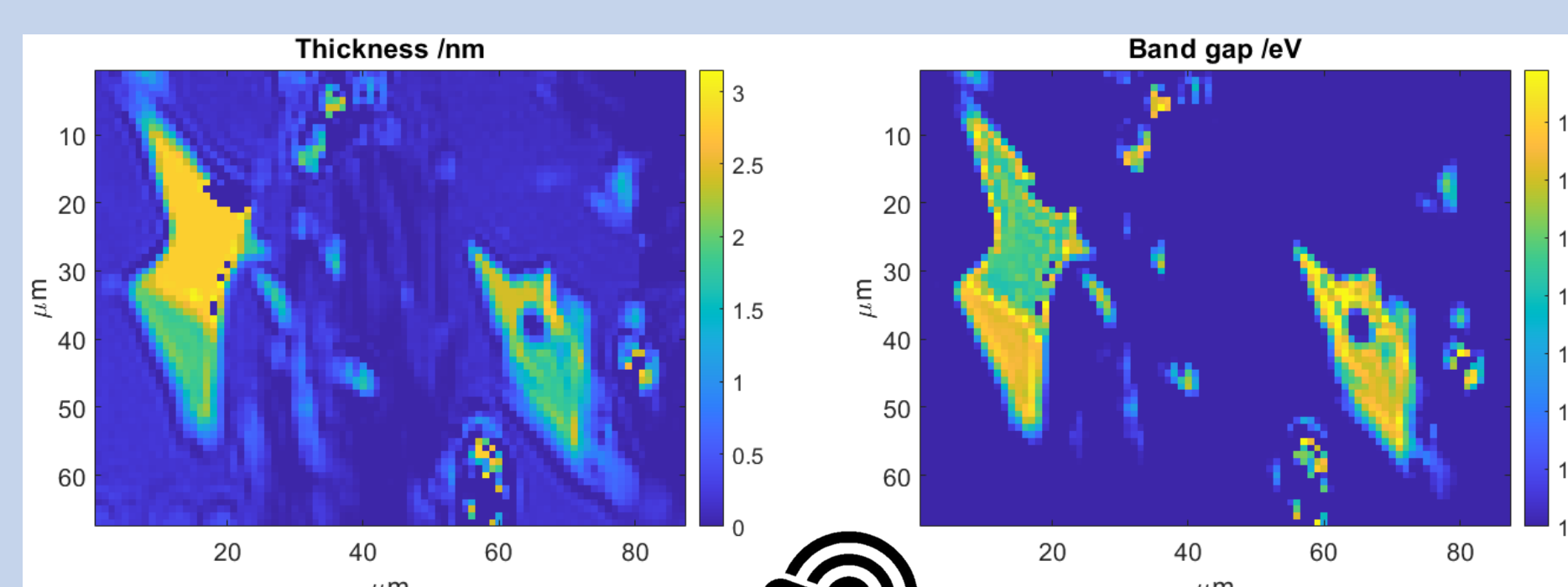
Etching: Corial 200IL RIE etcher, wet etching including HF, Mantis ion miller



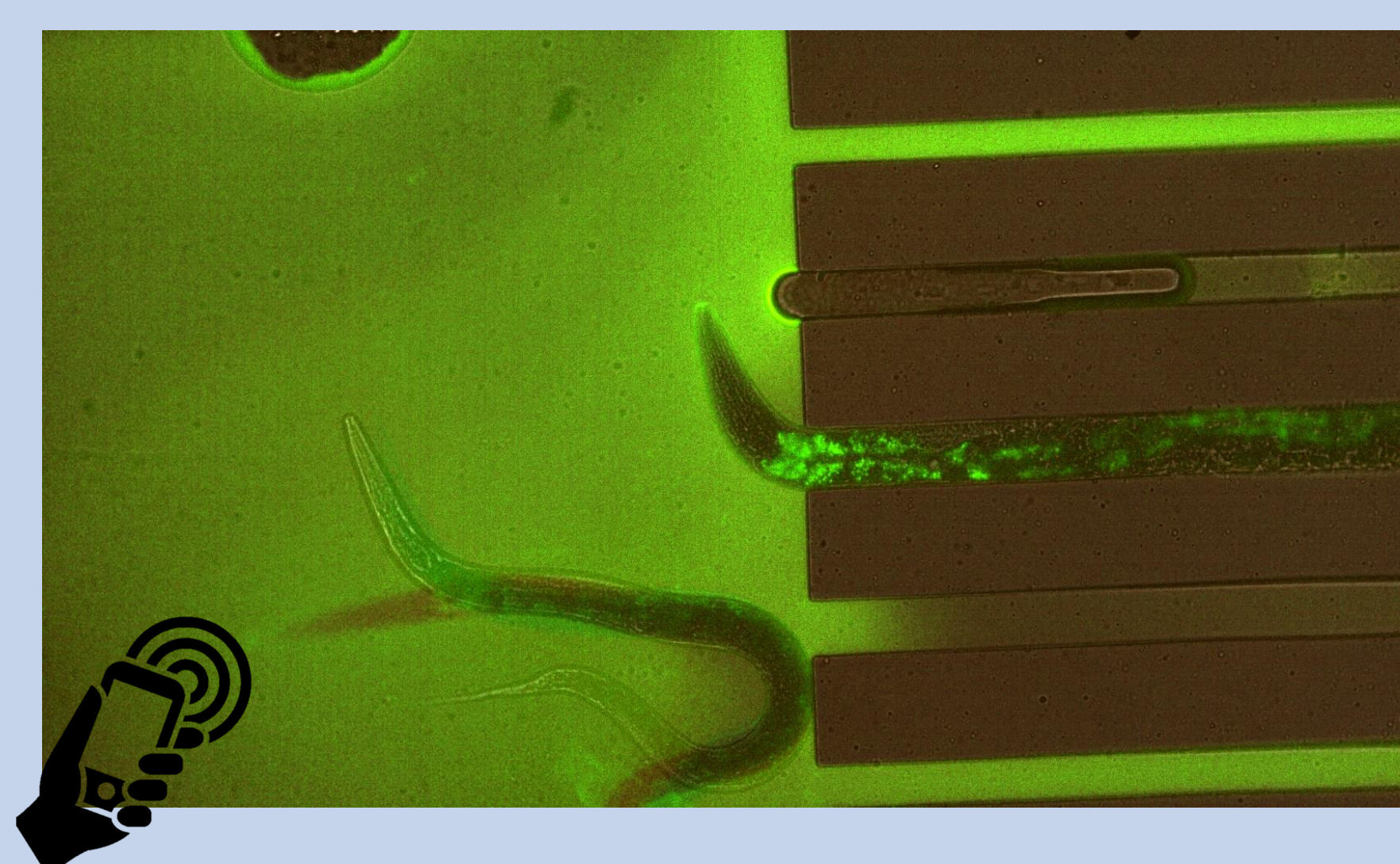
Analysis: Woollam M2000 VASE Accurion ep4 imaging ellipsometer, KLA-Tencor P7 stylus profiler, SEM, FIBs and TEMs



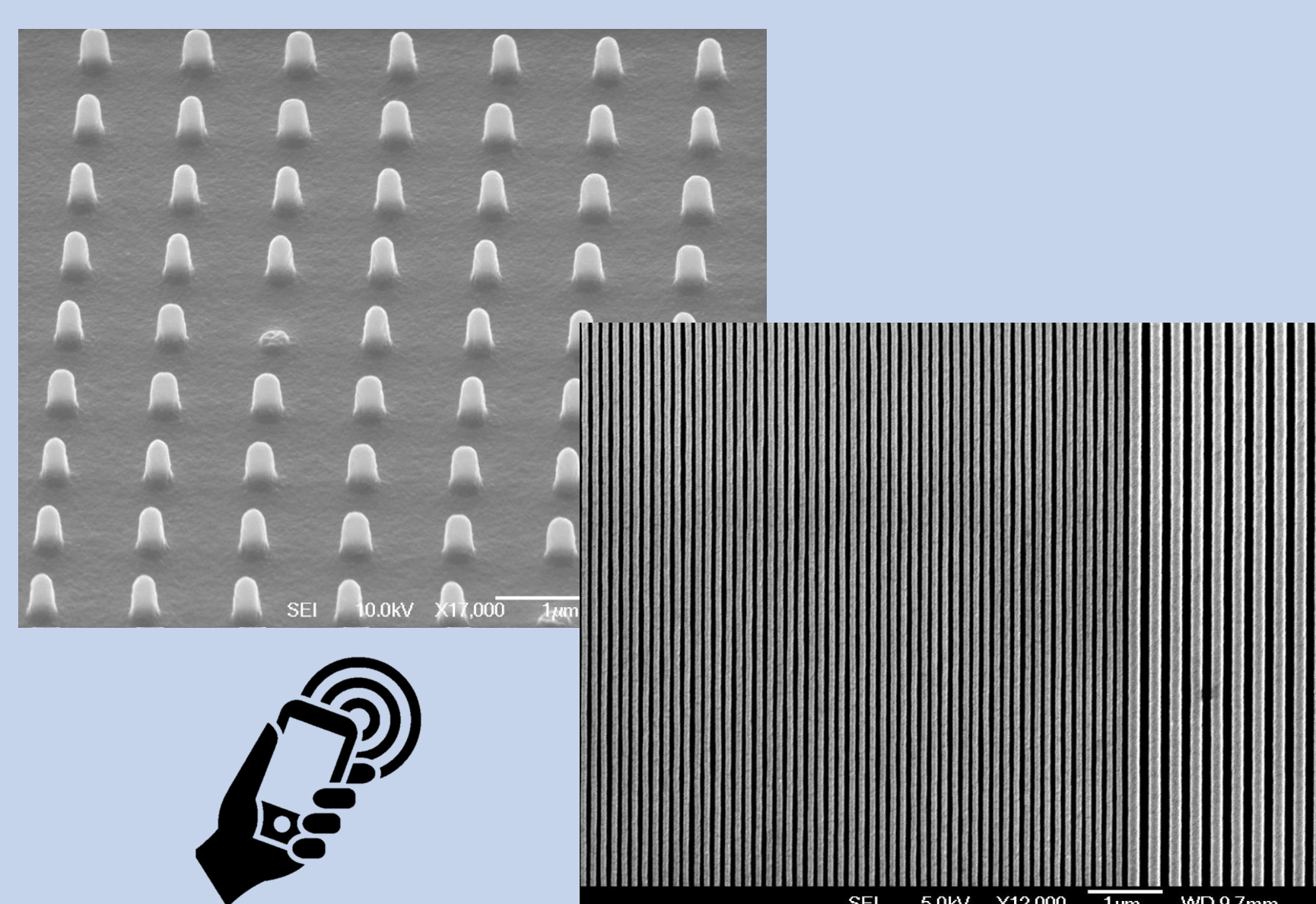
We can fabricate high quality metalenses via a combination of PECVD, EBL, thermal evaporation and dry etching.



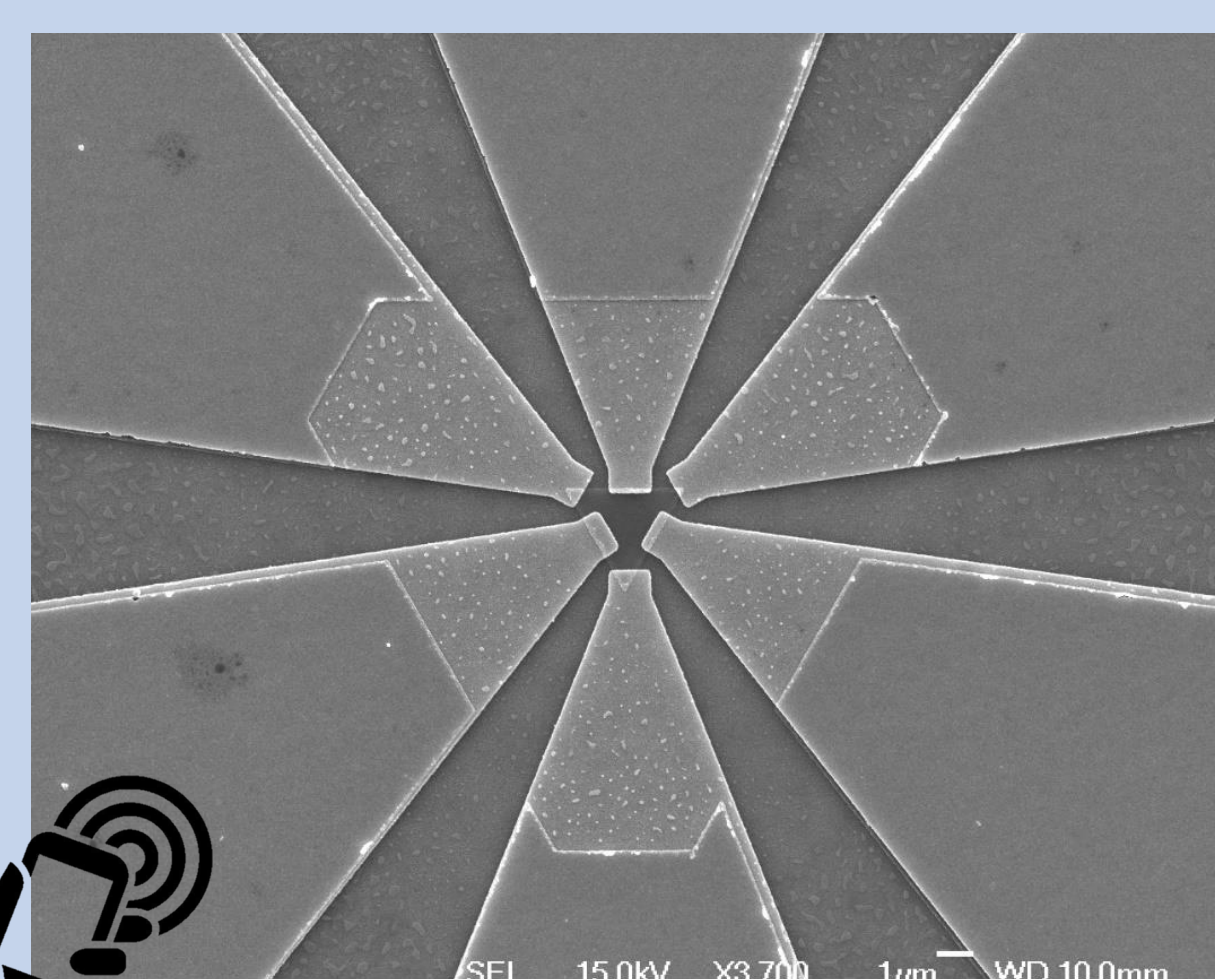
We have one of the few imaging ellipsometers in the country which we use to measure a variety of properties of 2D materials.



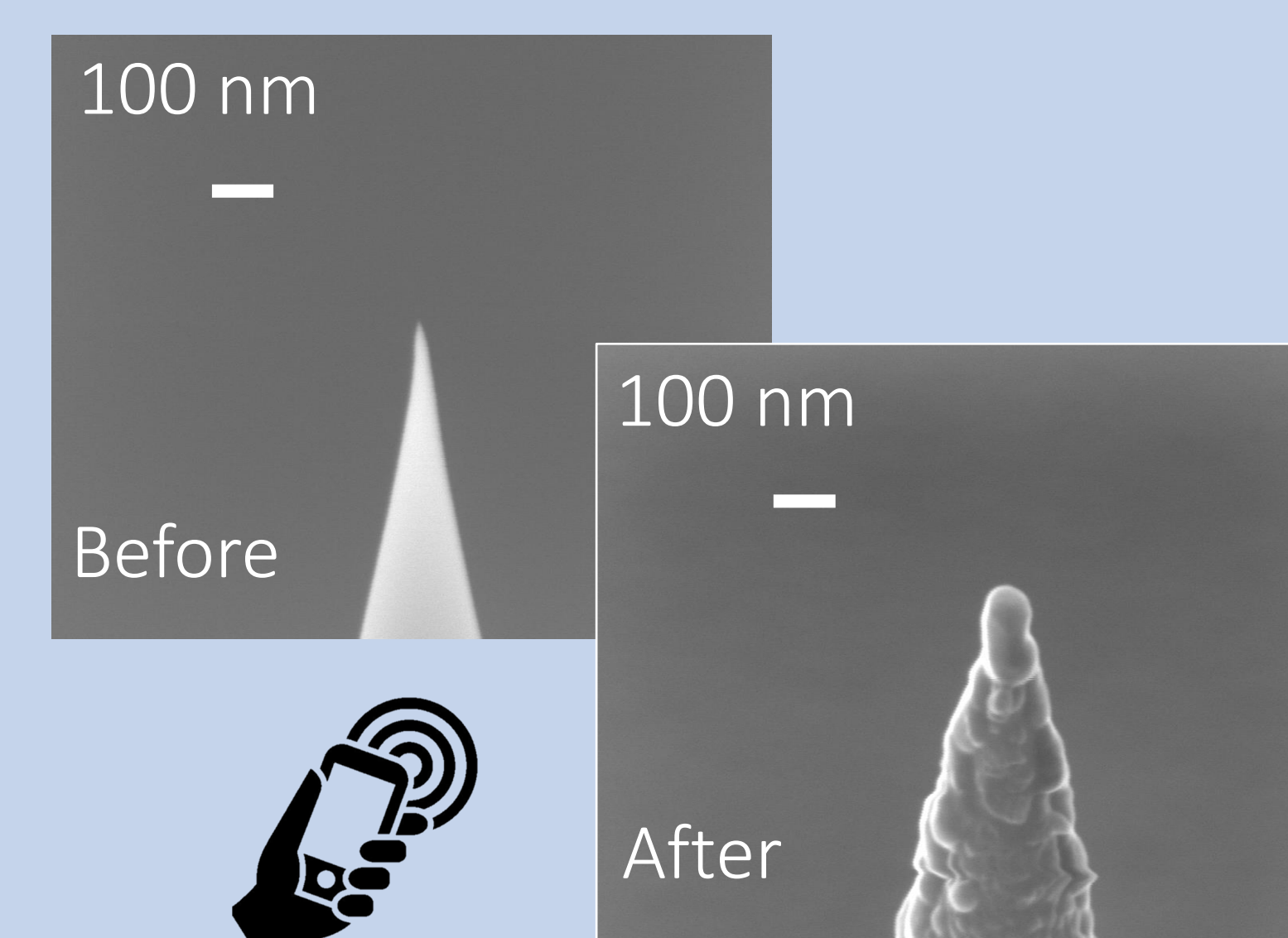
Maskless lithography allows us to rapidly create microfluidic devices, as no mask is needed, we can easily change designs as needed.



We have a roll to plate NIL system that can reproduce patterns from in house masks at a fraction of the cost of EBL/dry etching.



Thanks to our MBE facilities we can grow specialist wafers, these can then be patterned via a combination of EBL and ion milling.



We can fabricate and test our own high quality TERS tips via a combination of Electron beam evaporation and thermal oxidation

For more information:

- Go www.nottingham.ac.uk/nanofabrication
- Speak to Richard
- Scan the QR code or tap the NFC logo to read the poster later

