

Nanotechnology Fabrication Lab

Equipment and their Function



Class 1000 certified clean room

Nanotechnology research. resolution.



MJB3 Karl Suss Mask Aligner

Photolithography for micro-scale patterning and device preparation.



Newport Mask Aligner This apparatus holds the photomask in place to allow the UV light to shine on the substrate.



AJA International Sputtering machine 2DC powered and 3 RF powered guns. Along with plasma oxidation capabilities

Used for thin film deposition by the process of sputtering.



Kurt J. Lesker Company Thermal depositor

Used for thin film deposition by using an electric resistance heater to melt the material and deposit



VersaSTAT 4

Useful for electrochemical deposition.



Air Science Purair Fumehood Fume hoods used in the clean room to filter chemical vapors.