

LIST OF EQUIPMENT AND THEIR FUNCTIONS IN 42-111B NANOTECHNOLOGY FABRICATION LAB








IMAGE OF EQUIPMENT	EQUIPMENT NAME	EQUIPMENT FUNCTION
	Class 1000 certified clean room	Nanotechnology research.
	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.

IMAGE OF EQUIPMENT	EQUIPMENT NAME	EQUIPMENT FUNCTION
	<p>Kurt J. Lesker Company Thermal depositor</p>	<p>Used for thin film deposition by using an electric resistance heater to melt the material and deposit onto a substrate.</p>
	<p>VersaSTAT 4</p>	<p>Useful for electrochemical deposition.</p>
	<p>Air Science Purair Fumehood</p>	<p>Fume hoods used in the clean room to filter chemical vapors.</p>