## Nanotechnology Fabrication Lab Equipment and their Function



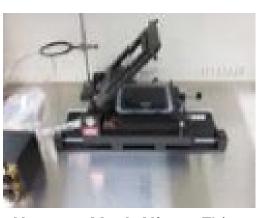
Class 1000 certified clean room

Nanotechnology research. resolution.



MJB3 Karl Suss Mask Aligner

Photolithography for microscale 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.