

MIT.nano

FAB.NANO TOOL CHARGE LIST

AS OF JULY 2025

TOOL	EXTERNAL RATE
DEPOSITION	
ALD-AllPurpose	\$105/run + \$60/hr
ALD-Ozone	\$105/run + \$60/hr
ALD-Plasma-Arradiance-XTDP	\$150/run + \$60/hr
ALD-Plasma-Arradiance-Nitrides	\$150/run + \$60/hr
Dimatix2837_Printer	\$150/hr + materials
EBeam-AJA	\$420/run + \$135/hr after 4 hrs + materials
EBeam-EVO	\$420/run + \$135/hr + materials
EBeam-Temescal-FC2800	\$420/run + \$135/hr after 2 hrs + materials
EBeam-Temescal-LL	\$420/run + \$135/hr after 2 hrs + materials
PECVD-2Chamber-AMAT-Centura	\$360/run + \$150/hr
PECVD-Oxford-TEOS	\$180/run + \$150/hr
PECVD-Samco-PD220	\$180/run + \$150/hr
PECVD-STs-MMPLEX	\$180/run + \$150/hr
Sputter-4Chamber-AMAT-Endura	\$255/wafer
Sputter-AJA-ChamberLoad	\$420/run + \$135/hr after 4 hrs + materials
Sputter-AJA-LL	\$420/run + \$135/hr after 4 hrs + materials
Sputter-Balzer	\$204/hr + materials
Sputter-Balzer-Au	\$204/hr + materials
Storage-Metal-U08	\$0/run
ThermalEvap-Parylene	\$300/run + \$60/hr
DIFFUSION	
Anneal-Box	\$127.5/run + \$38.4/hr
Anneal-Tube	\$178.5/run + \$63.9/hr
Ox-Tube-Lindberg	\$178.5/run + \$63.9/hr
RTA-1100C-ASMicro	\$102/wafer
RTA-1100C-ASOne150	\$102/wafer
RTA-1300C-ASOne150	\$102/wafer
RTA-1300C-ASOne150-5Gas	\$102/wafer

See the full list, including academic and external rates: nanousers.mit.edu/fabnano

Tube-OxAnneal-Expertech-CTR200	\$637.5/run + materials
Vacuum-Oven	\$178.5/run + \$63.9/hr
DRY ETCH	
DRIE-SPTS-Pegasus	\$180/run + \$105/hr
DRIE-ST5-MMPLEX	\$180/run + \$105/hr
RIE-2Chamber-AMAT-P5000	\$178.5/wafer + materials
RIE-Cl2-SAMCO-200iP	\$180/run + \$105/hr
RIE-Diamond-SAMCO-200iP	\$180/run + \$105/hr
RIE-F-Samco-230iP	\$180/run + \$105/hr
RIE-Mixed-Samco-230iP	\$180/run + \$105/hr
RIE-PlasmaTherm-210RL-A	\$180/run + \$105/hr
RIE-PlasmaTherm-210RL-B	\$180/run + \$105/hr
VaporEtch-XeF2	\$510/run
METROLOGY	
AFM-Asylum-JupiterXR	\$229.5/hr
AFM-Veeco	\$229.5/hr
AIR_Solar_Sim	\$132.6/hr
Cleave-LatticeAx	\$127.5/run
Dektak-150	\$51/hr
Dektak-XT	\$51/hr
Ellipsometer-Analysis-PC	\$15/hr
Ellipsometer-Semilab-SE2000	\$60/run + \$90/hr
Filmetrics-F50	\$51/hr
Filmetrics-F20-Lower	\$25.5/hr
Filmstress-Tencor-FLX2320	\$127.5/hr
Fluidic-Test	\$127.5/hr
Microscope-Inspect-4k	\$76.5/hr
Microscope-Inspect-HD	\$51/hr
ProbeStation-Summit-11000	\$90/run + \$72/hr
Scribe-Backside	\$76.5/run
Scribe-Frontside	\$76.5/run
SEM-Hitachi-Regulus8100	\$229.5/hr
SEM-Zeiss-Sigma300	\$229.5/hr
Tencor-P10	\$127.5/hr
Veeco-Wyko-NT9800	\$127.5/hr
NANOMAT	
4_Point_Probe	\$132.6/hr
AIR_BladeCoater	\$132.6/hr
AIR_FOM	\$132.6/hr
Cary_UV-Vis_Spec	\$132.6/hr

Fluorescence_Spec	\$300.9/run + \$30.6/hr
GB_Metals_Evaporator	\$420/run + \$90/hr + materials
GB_Organics_Evaporator	\$420/run + \$90/hr + materials
GB_Solar_Sim	\$132.6/hr
GB_Spincoater	\$60/run + \$120/hr
PACKAGING	
Clean-Ar-Plasma	\$178.5/hr
DieBonder-PickAndPlace	\$178.5/hr
Diesaw-DAD3240	\$150/run + \$90/hr
Freezer-Packaging	\$178.5/hr
Microscope-QuickVision	\$178.5/hr
Oven-EnvironmentalTest-ESPEC	\$892.5/run + \$7.8/hr
Oven-Reflow	\$178.5/hr
Solder-Station	\$76.5/hr
Vacuum-Sealer	\$25.5/run
Wirebond-Auto	\$178.5/hr
Wirebond-Ball-MEI	\$178.5/hr
Wirebond-Ball-Westbond	\$178.5/hr
Wirebond-Wedge	\$178.5/hr
XRay-Inspection	\$178.5/hr
PHOTOLITHOGRAPHY	
Asher-Barrel-Thierry	\$51/run
Asher-Chuck-ESI	\$51/run
Asher-SoftLitho	\$51/run
Asher-TergeoPlus-Remote	\$51/run
Asher-TergeoPro-Strip	\$51/run
Asher-TergeoPro-Clean	\$51/run
Beamer	\$60/hr
CoatDevelop-picoTrack	\$30/run + \$30/wafer + \$90/hour after 1 hour
Coldplate-Solvent	\$90/run + \$30/hr after 3 hours
CPD-Toussimis-931	\$153/run
Develop-Brewer-200CBX	\$51/wafer
Develop-L08	\$90/run + \$30/hr after 1 hr
Develop-U10	\$90/run + \$30/hr after 1 hr
Develop-U12	\$90/run + \$30/hr after 1 hr
DirectWrite-MLA150-AirAF	\$135/run + \$150/hr
DirectWrite-MLA150-OptAF	\$135/run + \$150/hr
DirectWrite-NanoFrazor	\$178.5/run + \$102/hr
DirectWrite-Nanoscribe-GT2	\$255/run + \$102/hr
DirectWrite-Raith-PicoMaster	\$135/run + \$150/hr

EBL-Elionix-HS50	\$280.5/hr
EBL-Spinner-Hood-U06	\$90/run + \$30/hr after 1 hr
Elionix	\$280.5/hr
General-Spinner-Hood-L10	\$90/run + \$30/hr after 1 hr
General-Spinner-Hood-U12	\$90/run + \$30/hr after 1 hr
HMDS-Yes-U10	\$30/run + \$30/hr after 1 hr
Hotplate-Tower-U10	\$51/run
Hotplate-Tower-U12	\$51/run
Interference-LloydsMirror	\$357/hr
Liftoff-L08	\$90/run + \$30/hr after 1 hr
Liftoff-L10	\$90/run + \$30/hr after 1 hr
MaskAlign-EV620	\$178.5/run + \$127.5/hr
MaskAlign-MA6	\$178.5/run + \$127.5/hr
MaskAlign-SoftLitho-EV620	\$178.5/run + \$127.5/hr
Oven-PostBake-U10	\$51/run
Oven-PostBake-U12	\$51/run
Oven-PreBake-U10	\$51/run
Oven-PreBake-U12	\$51/run
Polymer-Spinner-Hood-U04	TBD
Resist-Spinner-Hood-U10	\$90/run + \$30/hr after 1 hr
Spinner-EBL	\$30/run + \$30/wafer + \$90/hr after 1 hr
Spinner-PMGI-U12	\$30/run + \$30/wafer + \$90/hr after 1 hr
Spinner-Polymer	\$30/run + \$30/wafer + \$90/hr after 1 hr
Spinner-Resist-Dispense-U10	\$30/run + \$30/wafer + \$90/hr after 1 hr
Spinner-Resist-L10	\$30/run + \$30/wafer + \$90/hr after 1 hr
Spinner-Resist-U12	\$30/run + \$30/wafer + \$90/hr after 1 hr
UpNano_3D_Printer	\$225/hr (after 4 hours drops to \$102/hr)
WaferBonder-EV501	\$153/wafer
WaferBonderAlign-EV620	\$153/wafer
SOFT LITHO	
Microscope-Inspect-SU8	\$51/hr
Microscope-Stereo-SU8	\$25.5/hr
Mixer-PDMS-Degas	\$51/run
Oven-PDMS	\$25.5/run
PDMS-Prep	\$90/run + \$30/hr after 1 hr
SoftLitho-Develop	\$90/run + \$30/hr after 1 hr
SoftLitho-Prep	\$90/run + \$30/hr after 1 hr
Spinner-SU8	\$60/run + \$60/wafer + \$150/hr after 1 hr
SU8-Spinner-Hood	\$90/run + \$30/hr after 1 hr
WET ETCH & CLEAN	

Acid-Etch-General-L06	\$180/run + \$120/hr after 1 hr
Acid-Etch-General-U10	\$180/run + \$120/hr after 1 hr
Acid-Extended-U07	\$420/run + \$30/hr after 1 hr
Acid-PostCMP-U07	\$420/run + \$30/hr after 1 hr
Acid-PreClean-L06	\$180/run + \$120/hr after 1 hr
Acid-PreClean-U06	\$180/run + \$120/hr after 1 hr
Acid-SmallTanks-U10	\$180/run + \$120/hr after 1 hr
CMP-GnP	\$178.5/wafer
NitrideEtch-Phos-L06	\$180/run + \$120/hr after 1 hr
Ops-ParticleCounter	\$0/run
OxideEtch-HF-BOE-L06	\$180/run + \$120/hr after 1 hr
Plating-U04	\$637.5/full tank
RCA-Diffusion-L02	\$180/run + \$120/hr after 1 hr
SiliconEtch-KOH-TMAH-L06	\$180/run + \$120/hr after 1 hr
Solvent-Clean-Packaging	\$90/run + \$30/hr after 1 hr
Solvent-Clean-U06	\$90/run + \$30/hr after 1 hr
Solvent-L06	\$90/run + \$30/hr after 1 hr
SRD-L06	\$51/run
SRD-U10	\$51/run