

NUFAB Rates for Academic Users (2024-25)

All universities receive Northwestern Rates

For companies: Multiply by 2

CATEGORY	FY25	DESCRIPTION
NUFAB_Tech CLEANROOM (CR) FEES	Rate	
Hourly Rate (NUFAB Secure Door)	\$23	Per Hour
EQUIPMENT FEES		
Acid/Solvent Hoods and Supplied Chemicals	\$11	Per Hour
AFM - Bruker Edge	\$25	Per Hour
ALD-Arradiance GEMStar-6XT-P	\$37	Per Hour
Annealing Furnace - Blue M	\$22	Per Hour
Automatic Develop System – Osiris UNIXX S 20 D	\$19	Per Hour
Automatic ‘Dry In/Dry Out’ Acid Etch System– Osiri	\$25	Per Hour
Convection Ovens - Blue-M	\$6	Per Hour
Contact Angle Measurement (VCA Optima XE)	\$11	Per Hour
Critical Point Dryer - Tousimis	\$31	Per Hour
Developer Hood and Supplied Chemicals	-	Included in CR fee
Doping-Boron (p-type) - Tystar-2 furnace	\$37	Per Hour
Doping-Phosphorus (n-type) - Tystar-3 furnace	\$37	Per Hour
DRIE (STS Pegasus)	\$60	Per Hour
DRIE (SAMCO)	\$70	Per Hour
E-beam Evaporator (AJA)	\$49	Per Hour
eBL (Raith)	\$84	Per Hour
Electrical Test Station	\$31	Per Hour
Ellipsometer-JA Woolam Alpha SE	\$25	Per Hour
FIB-SEM (JEOL)	\$0	Per Hour
Flood Exposure	\$11	Per Hour
LPCVD Nitride - Tystar-6 furnace	\$60	Per Hour
Mask Aligner (Suss MABA6)	\$37	Per Hour
Mask Aligner (Suss MJB4)	\$25	Per Hour
Maskless Aligner (Heidelberg MLA150)	\$73	Per Hour
Maskless Aligner (Heidelberg uPG501)	\$49	Per Hour
Materials Printer – Dimatix 2850	\$25	Per Hour
Optical Microscopes	-	Included in CR fee
Optical Profilometer (Zygo NexView)	\$37	Per Hour
Optical Tensiometer (ThetaFlow)	\$25	Per Hour
Parylene Coater	\$25	Per Hour
PECVD (Samco)	\$50	Per Hour
PECVD (STS)	\$47	Per Hour

Plasma Cleaner - SAMCO	\$19	Per Hour
Profilometer (Dektak 8)	\$31	Per Hour
ProtoLaser R4 (LPKF)	\$55	Per Hour
Reflectometer (Filmetrics F20)	\$11	Per Hour
RIE (Samco 10NR)	\$31	Per Hour
RTA/RTP (Allwin21)	\$37	Per Hour
Spinner/Bake Hoods	\$11	Per Hour
Sputter I (AJA) - non-Gold	\$38	Per Hour
Sputter II (AJA) - non-Gold	\$38	Per Hour
Sputter II (AJA) - Gold	\$83	Per Hour
Thermal Evaporator (Denton)	\$37	Per Hour
Thin Film Stress Measurement System - FLX 2320-S	\$28	Per Hour
Vacuum Oven - Yes	\$11	Per Hour
Wet/dry Oxidation - Tystar-1 furnace	\$37	Per Hour
Wire Bonder-Automatic (TPT)	\$30	Per Hour
Wire Bonder-Ball (iBond5000)	\$25	Per Hour
Wire Bonder-Wedge (WestBond)	\$25	Per Hour
XeF2 Etcher	\$62	Per Hour
NUFAB_Cook		
Hourly Rate (NUFAB_Cook Secure Door)	\$23	Per Hour
EQUIPMENT FEES		
ALD - Savannah S100	\$77	Per Hour
Baking Plates	-	Included in CR fee
Deep Oxide Etch (ULVAC)	\$60	Per Hour
E-Beam Evaporator - Auto 306	\$62	Per Hour
E-Beam Evaporator - Auto 500	\$62	Per Hour
F20 Thin Film Analyzer	\$17	Per Hour
Hall Effect / Resistivity / I-V Measurements System	\$43	Per Hour
Lithography hood	\$11	Per Hour
Mask Aligner - MA/BA6	\$37	Per Hour
Mask Aligner - Q-4000	\$31	Per Hour
Metricon Prism Coupler	\$21	Per Hour
Optical Microscope	-	Included in CR fee
RIE 10NR - Samco	\$48	Per Hour
RTP - AS-Micro	\$77	Per Hour
Sputter III (AJA) - Niobium	\$42	Per Hour
UHV Deposition System - Plassys	\$80	Per Hour
Wafer Dicing System - ADT 7122	\$80	Per Hour
Wire Bonder-Wedge	\$25	Per Hour
TRAINING FEES		
Equipment Training	\$130	Per Trainee, Per Equipment
Hands-on Clean Room Training (Access Request)	\$130	Per Trainee
Process Support (Tech Assist)	\$130	Per Hour

NUANCE Center Reservations and Rates policies

Reservations

Using NUcore, <http://www.nucore.northwestern.edu>, reservations can be made by half hour periods for the duration required.

Daytime, Evening & Weekend and Overnight access

'Daytime' is from 8am to 6pm, Monday through Friday. 'Evening & Weekend' access is available for those who have obtained approval by the appropriate instrument manager. Discounts may apply for instruments during these 'off-hours' times. During university holidays, NUANCE is accessible to Users with 'Evening & Weekend' access, though facilities staff may not be available to offer technical assistance.

Early login and late logoff

You are allowed to login 5 minutes earlier than reserved start time; should you require an earlier login, you will need to move your reservation in NUcore. Should you determine that time beyond your reservation is needed, you are required to **extend** your reservation in NUcore. Time beyond the reservation end-time is charged in minutes.

Partly used reservations

If reserved time is not fully used, you will be charged according to reserved time. Do not reserve time more than needed. (If you have a reservation, another user is barred from using the instrument.)

Unused reservation

If you do not login within 30 minutes after your reserved start time, you will be charged a minimum of 1 hour. After this 30-minute period, another user may use the instrument.

Cancelled reservation

You will not be charged if you cancel your instrument, service or training reservation 24 hours or more ahead of your planned start time. You will be charged a set-up fee if you cancel within 24 hours.

Forgot to logout

It is imperative that you log off after your session. If you forget to log off, you will be charged the greater of reserved time or 2 hours.

Report forgotten logouts

If you discover that the previous User forgot to logout and the instrument is no longer in use, you may login.

*******Please use caution, as a User's experiment might be interrupted if you logoff when the instrument is still in use. If in doubt, please contact a facility manager.

Technical assistance and training fee

Managers post 'technical assistance' and 'training' fees to your NUcore account within 48 hours.

Consumables

Enter your consumable items when logging off instrument. If you forget, a manager may enter it manually.

Machine downtime

You will not be charged if the instrument is marked as 'down', even if you have reserved the instrument. You may request to have the charges waived if the equipment is faulty but not marked as 'down' in NUcore; please contact your facility manager immediately to resolve.

Report equipment problems

When logging off equipment in NUcore, User should check "problem" or "down" if there was problem during the experiment. Facility managers will receive an email notice and fix the problem as soon as possible. Facility managers will also evaluate if the usage charge should be waived due to the problem reported.

Questionable charge

Contact the appropriate instrument manager as soon as possible to discuss any questionable charge. Adjustments must be completed within 90 days to comply with the university policies.

Billing schedule

NUANCE closes each month before sending instrument use charges to NU Accounting. We use the chart strings from your User profile, which are validated against the university's NU Financials database daily.