

**Imaging and Histology Core Facility**

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[nau.edu/ihcf](http://nau.edu/ihcf)

Category	Service	Unit	Description	Academic Price	Industry Price
Imaging-Scanning electron Microscopy	Specimen dehydration/sample (ethanol)	per sample	Dehydration of samples using ethanol. HMDS and acetone are not included.	\$0.70	\$1.10
Imaging-Scanning electron Microscopy	Specimen dehydration/sample (acetone)	per sample	Dehydration of samples using acetone. HMDS is not included.	\$0.90	\$1.40
Imaging-Scanning electron Microscopy	Chemical drying/sample	per sample	Dehydration and drying of samples by chemical means, using hexamethyldisilazane (HMDS)	\$5.80	\$8.80
Imaging-Scanning electron Microscopy	Freeze dry/sample	per sample	Freeze drying of samples for SEM preparation. Charged per sample. Includes liquid nitrogen quick freezing.	\$5.40	\$8.20
Imaging-Scanning electron Microscopy	sputter coat per sample	per sample	Sputter coating of SEM samples charges per sample. Gold/palladium or carbon coating included.	\$2.60	\$3.95
Imaging-Scanning electron Microscopy	specimen mounting per sample	per sample	Mounting of samples for SEM observation. Includes standard stub (13 mm) and all necessary adhesives. Large stub or carbon stubs are not included and will be charged separately	\$1.90	\$2.90
Imaging-Scanning electron Microscopy	Critical point dry/sample	per sample	Critical point drying per sample	\$6.70	\$10.20
Imaging-Scanning electron Microscopy	SEM beam time/hour	per hour	Hourly charge for unassisted use of the SEM. Includes use of the EDS and/or the WDS.	\$40.00	\$61.00
Imaging-Transmission Electron Microscopy	Specimen preparation/sample	per sample	Sample preparation of tissues for transmission electron microscopy. Includes dehydration, infiltration, and embedding. Fixation and sectioning are not included. Filter preparation will incur an additional fee.	\$10.60	\$16.10
Imaging-Transmission Electron Microscopy	Glass knife making	per set of 2 knives	Includes material necessary to make one set of two knives.	\$0.70	\$1.10
Imaging-Transmission Electron Microscopy	Thick section/block	per block	Includes all material necessary for thick sectioning one block. One slide and staining material included.	\$1.40	\$2.10
Imaging-Transmission Electron Microscopy	Thin section/grid	per grid	Includes all material necessary for thin sectioning one grid. Diamond knife use and any grid type included.	\$2.40	\$3.65
Imaging-Transmission Electron Microscopy	Ultramicrotome usage/hour	per hour	Charge for clients to use the ultramicrotome to section resin blocks.	\$15.00	\$22.80
Imaging-Transmission Electron Microscopy	Negative staining/grid	per grid	Uranyl acetate and lead citrate staining for one grid.	\$1.00	\$1.50
Imaging-Transmission Electron Microscopy	Immuno staining/grid	per grid	IHC pricing is project/protocol dependent. Please contact staff for current rates.	TBD	TBD
Imaging-Transmission Electron Microscopy	TEM beam time/hour	per hour	Hourly charge for unassisted use of the TEM	\$40.00	\$61.00
Imaging-Transmission Electron Microscopy	Filter preparation/sample	per sample	Additional charge for preparing micro samples for transmission electron microscopy using filters and syringes.	\$2.20	\$3.35
Imaging-Fixation	2 mL Ampoule 4% Osmium Tetroxide	per ampoule	One ampoule containing 2 mL of 4% osmium tetroxide solution for fixation.	\$14.60	\$22.20
Imaging-Fixation	10 mL Ampoule 4% Osmium Tetroxide	per ampoule	One ampoule containing 10 mL of 4% osmium tetroxide solution for fixation.	\$25.20	\$38.30
Imaging-Fixation	10 mL Ampoule of 50% Glutaraldehyde	per ampoule	One ampoule containing 10 mL of 50% glutaraldehyde for tissue fixation.	\$13.50	\$20.50

Imaging-Fixation	1 mL of 50% glutaraldehyde	per mL	50% glutaraldehyde for tissue fixation, sold per 1 mL.	\$1.40	\$2.15
Imaging-Fixation	10 mL ampoule of 20% paraformaldehyde	per ampoule	One ampoule containing 10 mL of 20% paraformaldehyde for tissue fixation.	\$6.20	\$9.40
Imaging-Fixation	1 mL of 20% Paraformaldehyde	per mL	20% paraformaldehyde for tissue fixation, sold per 1 mL.	\$0.60	\$0.90
Imaging-Additional services	Training	per hour	Staff labor charged for training on ultramicrotome, sample preparation, and all microscopes.	\$37.50	\$57.00
Imaging-Additional services	Staff labor	per hour	Staff labor fee will apply if you would like IHCF staff to prepare TEM and/or SEM samples for you (including fixation, dehydration, drying, sectioning, and staining) or run the microscope (SEM, TEM, confocal, digital microscope, etc) for you or with you.	\$37.50	\$57.00
Imaging-Additional services	Keyence digital microscope use	per hour	Unassisted use of the digital microscope, charged by the hour.	\$15.00	\$22.80
Imaging-Additional services	Zeiss AxioScope microscope use	per hour	Unassisted use of the Zeiss AxioScope, charged by the hour.	\$10.00	\$15.20
Imaging-Additional services	Zeiss Discovery V8 microscope use	per hour	Unassisted use of the Zeiss Discovery V8 microscope, charged by the hour.	\$10.00	\$15.20
Imaging-Additional services	Leica TCS SPE II confocal microscope use	per hour	Unassisted use of the confocal microscope, charged by the hour.	\$25.00	\$112.00
Imaging-Additional services	Quantachrome NOVA 2000e use	per sample	area and pore size analyzer, charged per sample.	\$1.65	\$2.50
Imaging-Supplies	25 mm large SEM stub	per stub	One large 25mm stub for mounting large SEM samples	\$2.30	\$3.50
Imaging-Supplies	13 mm standard SEM stub	per stub	One standard 13mm stub for mounting standard sized SEM samples	\$0.40	\$0.60
Imaging-Supplies	Carbon SEM stub	per stub	One standard size SEM stub made of carbon, used for elemental analysis.	\$2.00	\$3.05
Imaging-Supplies	microporous specimen capsule	per capsule	One 78 micron microporous specimen capsule for CPD and specimen preparation.	\$3.50	\$5.30
Imaging-Supplies	200 mesh copper grid	per grid	One 200 mesh copper grid for TEM sample preparation.	\$0.40	\$0.60
Imaging-Supplies	200 mesh formvar/carbon coated copper grid	per grid	One 200 mesh formvar/carbon coated copper grid	\$1.90	\$2.90
Imaging-Supplies	Slide Storage Box 100	per box	One slide storage box with 100 slide capacity	\$4.50	\$6.85
Imaging-Supplies	SEM stub storage box	per box	One paper storage box capable of holding 8 standard stubs.	\$1.10	\$1.70
Imaging-Supplies	TEM grid storage box	per box	One grid storage box capable of holding up to 50 grids.	\$6.10	\$9.30
Imaging-Supplies	TEM block storage box	per box	One paper box for storage of TEM blocks.	\$0.60	\$0.90