

# Central Analytical Facilities

## Microscopy Unit

### Microscopy Unit Price list from 1 March 2024

Instrument use	Assisted (academic)	Non-assisted (academic users)	Industry
MERLIN	R840.00	R510.00	R1 300.00
EVO	R680.00	R420.00	R1 300.00
Apreo VolumeScope SEM	R840.00	R510.00	R1 300.00
Polarised/Stereo Light microscope	R220.00	R120.00	R320.00
Confocal Microscope	R800.00	R490.00	R1 200.00
Fluorescence Microscope	R630.00	R380.00	R1 200.00
Overnight (montaging/live/automatic acquisition)	R420.00	R420.00	R760.00
Industry independent acquisition			R800.00
Coating (per run)	R140.00	R140.00	R200.00
Critical Point Dryer (per run)	R340.00	R340.00	R500.00
Ultramicrotome sectioning	R420.00	R210.00	R630.00
Leica Cryostat	R420.00	R210.00	R630.00
<b>Services</b>			
Consultation/user support	R400.00	R400.00	R580.00
Custom Sample preparation (per hour)	R400.00	R400.00	R580.00
Snap freezing in LN <sub>2</sub> (per sample)	R70.00	R70.00	R95.00
Standard resin embedding (per sample)	R460.00	R460.00	R700.00
Megametal protocol (per sample)	R540.00	R540.00	R800.00
SEM prep with osmium (per sample)	R440.00	R440.00	R660.00
SEM prep without osmium (per sample)	R400.00	R400.00	R600.00
Negative staining for STEM	R200.00	R200.00	R300.00
Data extraction	R400.00	R400.00	R580.00
Data processing	R400.00	R400.00	R580.00
Report	R400.00	R400.00	R580.00
Training course (in person per day)	R1 700.00	R1 700.00	R3 400.00
Online training (per hour)	R140.00	R140.00	R280.00

\* For EM sample preparation details, see additional document.

### Consumables and reagents

TEM/STEM Grids (per grid)	R110.00	Hoechst 33342 (1mg/ml) (per ul)	R10.00
SEM stubs (per stub)	R30.00	Phalloidin-Rhodamine (per ul)	R40.00
CLEM dishes (per dish)	R220.00	Syto 9 (per ul)	R20.00
Si Nano Wafers (per wafer)	R110.00	Cell tracker Green (per ul)	R10.00
Nunc 8 well chambered dishes (per dish)	R280.00	Mitotracker Red CMXRos (per ul)	R10.00
Carbon tape (per mm)	R60.00	Lysotracker Yellow (per ul)	R10.00
Vial/container/petridish (per item)	R10.00	SYPRO Red protein stain (per ul)	R10.00
Hexamethyldisilazane (HMDS) - (per ml)	R10.00	CellMask Orange (per ul)	R50.00
Glutaraldehyde (GLA) (per ml)	R30.00	Nile Red powder (per mg)	R20.00
Uranyl Acetate (UA) (per ml)	R220.00	Nile Red solution (0.5 mg/ml) (per ul)	R10.00
Uranyl Acetate zero (UA zero) (per ml)	R60.00	DRAQ5 (per ul)	R30.00
Cacodylate (per g)	R120.00	Agarose prepared slides	R30.00
Paraformaldehyde (PFA) (per g)	R30.00	LR White	R220.00
Ethanol (per ml)	R10.00	LN <sub>2</sub> Merlin cryostage (per L)	R40.00
Osmium Tetroxide (per mg)	R10.00	Calcofluor (per ml)	R50.00
L-aspartic acid (per g)	R10.00	Agarose (2%) (per ml)	R20.00
Benzoyl Peroxide Stabilised (per g)	R10.00	Propidium iodide (1mg/ml) (per ul)	R5.00
Lead (II) Nitrate (per g)	R10.00	Poly-L-lysine (per ml)	R80.00
Lead (II) Citrate tribasic trihydrate (per g)	R60.00	Fluorescent mounting media (per ml)	R140.00
Potassium hexacyanoferrate (III) (per g)	R30.00		

## Central Analytical Facilities Microscopy Unit

### EM Sample Preparation

PROCEDURE	PRICE PER HOUR	
	Academic	Industry
<b>1. Simple sample preparation</b> <ul style="list-style-type: none"> <li>▪ Dissolving in ETOH to add to grid / silicon nanowafer / stub</li> <li>▪ Additional hand trimming or sectioning</li> <li>▪ Pipetting onto grid / stub / nanowafer</li> <li>▪ Customised sample preparation (ie. none of the standard protocols below)</li> <li>▪ The only reagents included for this category would be ethanol, phosphate buffers and distilled water.</li> <li>▪ All other reagents will be charged separately.</li> <li>▪ Consumables such as grids, stubs, dishes etc will be charged separately</li> </ul>	<b>R400</b>	<b>R600</b>

PROCEDURE	PRICE PER SAMPLE	
	Academic	Industry
<b>Includes listed reagents</b>		
<b>2. Standard resin embedding for 2D SEM or STEM</b> <ol style="list-style-type: none"> <li>1. Osmium staining</li> <li>2. Uranyl Acetate</li> <li>3. Dehydration (6 EtOH steps, 1 Acetone step)</li> <li>4. Resin embedding</li> </ol>	<b>460</b>	<b>700</b>
<b>3. Megametal protocol</b> <ol style="list-style-type: none"> <li>1. Osmium- potassium ferricyanide staining</li> <li>2. TCH staining</li> <li>3. Normal Osmium staining</li> <li>4. Uranyl Acetate</li> <li>5. Dehydration (6 EtOH steps, 1 Acetone step)</li> <li>6. Resin embedding</li> </ol>	<b>540</b>	<b>800</b>
<b>4. SEM for outer morphology with osmium</b> <ol style="list-style-type: none"> <li>1. Osmium staining</li> <li>2. Dehydrate (6 EtOH steps)</li> <li>3. HMDS</li> </ol>	<b>440</b>	<b>660</b>
<b>5. SEM for outer morphology without Osmium</b> <ol style="list-style-type: none"> <li>1. Dehydrate (6 EtOH steps)</li> <li>2. HMDS</li> </ol>	<b>400</b>	<b>600</b>
<b>6. Negative staining for STEM</b> <ol style="list-style-type: none"> <li>1. Any additional reagents would be charged separately, such as negative staining with UA.</li> </ol>	<b>200</b>	<b>300</b>

\* Consumables such as grids, stubs, dishes etc will be charged separately