

# ANFF-Victoria Access and Pricing Policy

PQMS1-MCN-POL-0027-V30

## 1. INTRODUCTION

The purpose of this policy is to provide guidance and pricing information for accessing the Melbourne Centre for Nanofabrication (MCN) and other NCRIS-funded facilities which comprise the Victorian Node of ANFF (ANFF-Vic).

## 2. ORGANISATIONAL MATTERS AND POLICIES

The ANFF-Vic is one of 8 collaborative nodes of the Australian National Fabrication Facility (ANFF), a national network of micro- and nano-fabrication laboratories established through the National Collaborative Research Infrastructure Strategy (NCRIS).

As a condition of its funding support through NCRIS, the external user access to the node must be consistent with the general principles laid out in the national ANFF access and pricing policy.

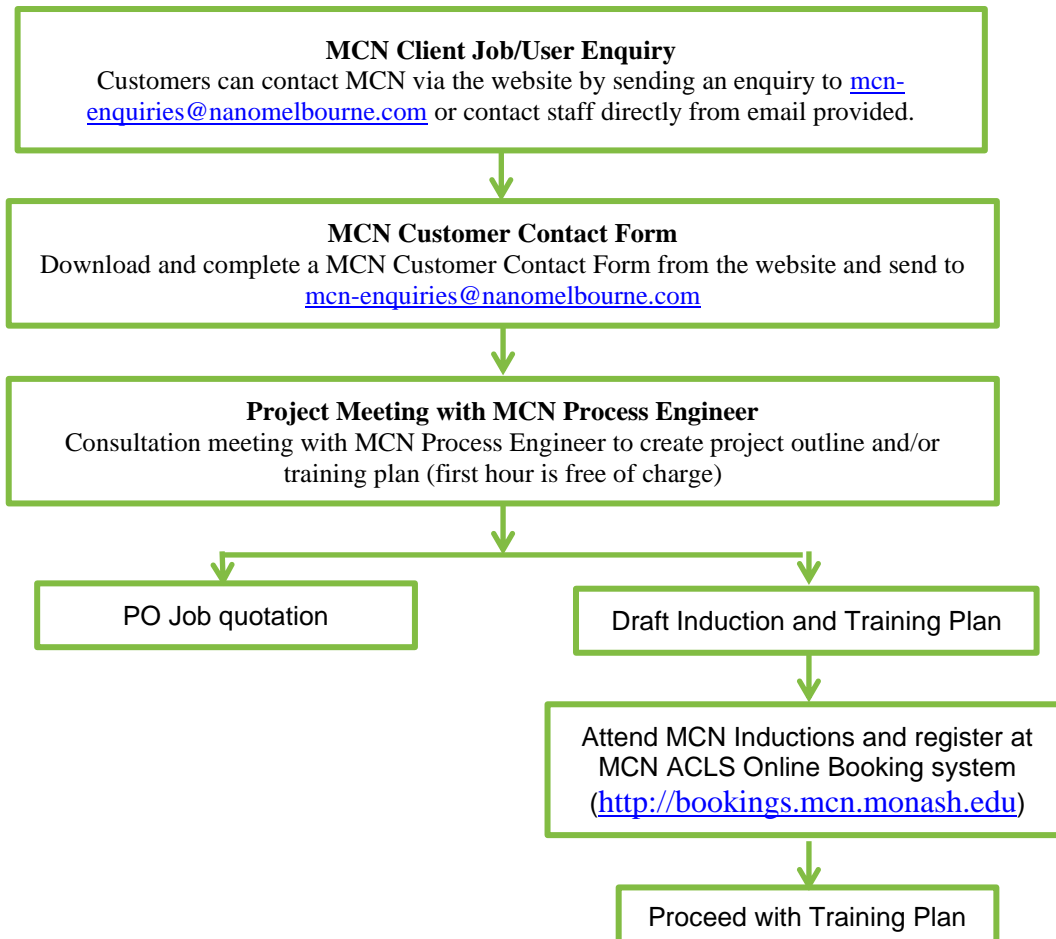
The MCN is operated by Monash University and as a result, all users must satisfy all Monash University policies and procedures including OH&S, out-of-hours and any other specific procedures of the MCN.

## 3. ACCESS FOR NEW USERS OR PROCESSING REQUESTS

1. The MCN Client Services Manager is the first point of contact for all potential users of this node. Process engineers at MCN can also be contacted directly by phone or by email (<http://nanomelbourne.com/access>), or a general request can be submitted to the process engineers at [mcn-enquiries@nanomelbourne.com](mailto:mcn-enquiries@nanomelbourne.com). Users may be directed to the process engineers via ANFF headquarters or via other nodes of the ANFF.
2. The most relevant process engineer (depending on nature of the project) will be assigned to assist each new user, and will liaise with other process experts at MCN to assess the scope and viability of the project(s) that is (are) proposed.
3. Once feasibility of the project has been established with a process engineer, a new user registration form (<http://bookings.mcn.monash.edu>) should be completed as a formal application for accessing the node (less than two pages). This form allows the user to briefly describe the work, the expected outcomes, funding source if applicable, the equipment and staff resources required (including estimated training time). The process engineer can assist the user in the preparation of this form if needed.
4. Submitted proposals from a new user will be processed by the Client Services Manager, by checking the completeness of contact and billing details, arranging for site induction if necessary, and provision of an account and password to the user for access to the online booking system.
5. If the work cannot be scheduled within a reasonable period due to other commitments at MCN, the application may be referred to the Access & Pricing Committee, chaired by the General Manager.
6. If the job proposal does not involve work in the MCN by a new user, the work will be undertaken by MCN staff at a price as set out in section C below.
7. In the case of a User Proposal for a new user, the user will be required to attend and pass the standard MCN OH&S induction procedure before they begin any work in the MCN.

8. In addition to other requirements, the user must make themselves aware of all MCN operational policies, as provided in the MCN User Manual or published online at <http://nanomelbourne.com/access>.
9. The MCN reserves the right to revoke job/user approvals with seven days written notice.
10. The MCN Access and Pricing Committee is responsible for ensuring that access to the node is in accordance with guidelines set out in the national ANFF access and pricing policy and as requested by the Department of Industry.
11. The MCN Access and Pricing Committee is composed of the ANFF-Vic/MCN Scientific Director, the General Manager, the ANFF CEO, the MCN Operations Manager (Chair) and representatives from the major stakeholder groups.
12. The MCN Access and Pricing Committee will review and advise the MCN Collaboration Committee on all pricing and access matters.

Below is a flowchart indicating the required access protocol



## 4. PRICING STRUCTURE

### ANFF-VIC: MELBOURNE CENTRE FOR NANOFABRICATION (MCN)

Flagship Equipment		
	Academic/public funded	Industry
Vistec Electron Beam Lithography**	\$128 / hour (\$1021 cap per 24hrs)	\$319 / hour (\$2553 cap per 24hrs)
Direct Write Photolithography Heidelberg MLA-150	\$128 / hour	\$319 / hour
Seki Diamond Deposition Systems	\$96 / hour (\$766 cap per 24hrs)	\$239 / hour (\$1912 cap per 24hrs)
Nanofrazor: Thermal Scanning Probe Lithography; direct laser sublimation**	\$96 / hour	\$239 / hour

Tier 1 Equipment (Sorted by capability area)		
	Academic/Public funded	Industry
<b>PRICING</b>	\$96 / hour	\$239 / hour
<b>Characterisation</b>	Atomic Force Microscope (Bruker Dimension Icon)	
	Atomic Force Microscope (Bruker Dimension Icon-PFTUNA)	
	Bio Atomic Force Microscope (JPK Nanowizard II)	
	FEG-SEM (FEI NovaNano SEM 430)	
	FEG-SEM (FEI Apreo)	
	FIB-SEM (FEI Helios Nanolab600 Dual Beam FIB-SEM)	
<b>Etching</b>	Etcher 1 (Oxford DRIE – Bosch)	
	Etcher 2 (Oxford RIE – General)	
	Etcher 3 (Oxford PlasmaPro Estrelas DRIE – Bosch)	
	Etcher 4 (ULVAC NLD-570 DRIE)	
	Etcher 5 (SAMCO ICP-RIE 400iP)	
<b>Lithography</b>	Mask Aligners (SUSS MA6 and EVG6200)	
	Laser cutting/ablation system (3D-MICROMAC)	
	Nano Imprint System (EVG 520 IS)	
	Talbot Lithography System (PhableR-100C)	
	Nanoscribe (GT2)	
	Direct Write UV (IMP SF-100)	
	ALD Systems (Cambridge Nanotech ALD FijiF200 & Savannah S100)	

**Thin Film Deposition**

Electron Beam Evap (Intlvac Nanochrome II e-beam) **
Electron Beam Evap (Angstrom) **
Electron Beam Evap (ULVAC ei-5 dual source)
Furnace Stack Tube #4 (Silicon Nitride LPCVD)
Furnace Stack Tube #1 & #2 (Phosphorus/Boron Bubbler Doping)
Nickel Electroplating (Digital Matrix SA1000)
PECVD (Oxford PlasmaPro 100 PECVD System)
Sputter Systems (Intlvac Nanochrome & Anatech Hummer BC-20) **
Sputter System (AJA Combinatorial)

**Tier 2 Equipment (Sorted by capability area)**

	<b>Academic/Public funded</b>	<b>Industry</b>
<b>PRICING</b>	\$64 / hour	\$160 / hour
<b>Bio Capabilities</b>	3D Printer (Stratasys J826)**	
<b>Characterisation</b>	Hyperspectral Imaging (Cytoviva Hyperspectral Imaging System)	
	Laser Doppler Vibrometers (Polytec MSA-400 & UHF-120)	
	Laser Confocal Scanning Microscope (Leica Stellaris 5)	
	MALDI imaging (Bruker Ultra-flexreme)	
	Microspectrometer (Nikon Instrument with Ti-U and Princeton Lightfield)	
	Near-field scanning optical microscope (NeaSNOM)	
	Optical Profilometer (Bruker Contour GT-I)	
	Spectroscopic Ellipsometer (J.A.Woolam M-2000DI)	
	Tabletop SEM (Hitachi TM3030 SEM with Oxford EDX)	
	Confocal Raman Microscope (Witec Alpha300 M+)	
	Profiler Stylus (Bruker Dektak XT-A)	
	FTIR (Perkin Elmer Spectrum 3)	
<b>Etching</b>	Anodic HF Etcher	
<b>Packaging</b>	Dicing Saw (Disco DAD3350)**	
	Wire Bonders (F&S Bondtec 5832 Ball/Wedge)	
<b>Thin Film Deposition</b>	Hitech Oxidation Furnace (\$492 Academic / \$1230 Industry 24hr capped)	
	Furnace Stack Tube #1 & 2 (Phosphorus/Boron solid source doping)	
	Furnace Stack Tube #3 (general purpose)	

Tier 3 Equipment (Sorted by capability area)		
	Academic/Public funded	Industry
<b>PRICING</b>	\$43/ hour	\$106 / hour
<b>Characterisation</b>	Zetasizer (Malvern Zeta Sizer Nano)	
	3D Scanner	
	DSA Mass Spectrometer (Perkin Elmer DSA-TOF)	
	Four-point probe station (Signatone WL- 1160)	
	Mapping Stage Filmetrics System	
	Keithley (4200A Parameter Analyzer)	
	Thin Film Stress Measurement System (FLX-2320-R)	
<b>Etching</b>	Metal Wet Etching Station (KOH, Cr, Au)	
	Plasma Asher System (Alpha Q235)	
	Fumehood for HF Etch	
	Fumehood for Piranha Etch	
<b>Lithography</b>	Flood Exposure Unit (ABM UV Flood Light Source)	
	Dual Track Robotic spin/bake/developer	
	Automated spin developer**	
	Critical Point Dryer (Quorum)	
	Robotic wet bench and IPA dryer	
<b>Thin Film Deposition</b>	Cr Sputter Coating (Quorum Q300TT)	
	Furnace MTI General Purpose	
	Sputtering and Carbon Thread Coater (Leica EM ACE600)	

Tier 4 Equipment (Sorted by capability area)		
	Academic/Public funded	Industry
<b>PRICING</b>	\$27 / hour	\$67 / hour
<b>Lithography</b>	Fumehood for Photo-Lithography Processing**	
	Spinner SUSS 6-inch wafer**	
	Spinner/Hotplate SUSS Delta 90**	
	HG programmable hotplates	
<b>Characterisation</b>	UV-VIS Spectrophotometer (Agilent Cary 60)	

<b>General Lab Equipment</b>	HG Programmable Hotplate
	UV/Ozone Cleaner Samco UV
	PC for EBL Data Preparation
<b>Laboratories</b>	General laboratories
	PC2 Laboratory (10k annual recoveries cap per supervisor)
	PDMS Laboratory
	Cleanroom Laboratory (bespoke arrangements)

\*\* Denotes that linked consumables surcharges may apply, see Table 1 below

Please note: (1) ALL tools require BOOKING in ACLS in order to schedule all users effectively. (2) Academic/public funded rate is only available to Australian academics. Users from academic institutions outside of Australia will be subject to industry pricing.

Staff Time and Residency Charges		
	Academic/Public Funded	Industry
MCN Staff Time – Assisted Work	\$85 / hour	\$213 / hour
MCN Staff Time – Training	\$53 / hour	\$133 / hour
General Residency (by arrangement) <i>see details below*</i>	\$684 / month	\$1711 / month
Full Access Residency (by arrangement) <i>see details below*</i>	\$2734 / month	\$6834 / month
Private Industry Laboratory (by arrangement) <i>see details below</i>	\$5320 / month	\$5320 / month

**General Residency** includes: allocation of dedicated desk and laboratory space at MCN and access to all tier 3 equipment and laboratory use. It does NOT include use of any tier 2, tier 1 or flagship equipment. All residencies must be for a minimum of 3 months at each interval and paid in advance.

**Full Access Residency** includes: general residency plus access to all Tier 1-3 Equipment. It does NOT include use of any Flagship equipment. All residencies must be for a minimum of 3 months at each interval and paid in advance.

**Private Industry Laboratory:** 30sqm, FOB-accessible laboratory with dedicated fume cupboard, essential services, bench space for 3-6 staff and ample storage. Prospective tenants commit to a minimum 12-month lease and must maintain at least one Full Access Residency for term of lease. Additional charges related to facility modifications and/or consumables may apply depending on nature of proposed activity. Contact MCN's [Infrastructure and OHS Manager](#) for further details.

*\* Industry Start-ups may be eligible for a 40% discount to standard industry residency rates; see [here](#) for eligibility criteria and how to apply. Prospective industry residents must be adequately insured for liability/indemnity. Dedicated laboratory bench space allocations —within shared a shared lab— for Residency package holders is subject to availability. Limited private office space may also be available for Full Access Residency clients at a 10% premium (minimum of 12-month commitment required)*

**Table 1. Linked consumables charges associated with certain MCN equipment.**

Linked Consumables Charges	
PVD precious metals (Au, Ag, Pt, Pd)	Market rate per \$/nm (see staff or ACLS for details)
Photoresist (per sample)	AZ series (\$7.5), SU8 series (\$12.5)
Standard EBL resist (per sample)	PMMA/MMA (\$1 per 1" wafer; \$3 per 1 inch wafer;\$6 per 2" wafer; \$9 per 3" wafer \$12 per 4" wafer; \$18 per 6" wafer)
Specialty EBL resist (per ml)	ZEP (\$50), HSQ (\$18); see staff for purchase
Nanofrazor TSPL resist (per ml)	PPA (\$113); see staff for purchase
Stratasys J826 3D printer (per g)	Full Cure 706 (\$0.20/g), Vero Clear/Colour (\$0.68/g), Vero Contact Clear (\$0.75/g)
Nanoscribe Consumables (pc)	30mm dia PPGT2 (\$2.60), 25x25mm PPGT2 (\$18.50), 25x25mm Silicon (\$24.60), 25x25mm ITO coated glass (\$12.80), IP-Q Resin PPGT2 10x (\$13.30), IP-S Resin PPGT2 25x(\$11.80), IP-PDMS PPGT2 25x(\$35.90), IPDip2 resin PPGT2 63x (\$10.80), IP-L resin PPGT2 63x (\$10.30), IP-Visio Resin (\$43.1)
ALD precursors	\$1/nm

**Table 2. Mask Fabrication Charges.**

Mask Fabrication Charges			
*Plate Size	Min Feature Size	Academic/Public Funded	Industry
5"	>1.5 um	\$360	\$720
	<1.5 um	\$520	\$1040
7"	>1.5 um	\$760	\$1120
	<1.5 um	\$920	\$1440

\*Standard for plates will be Soda Lime Glass; surcharge will be added for Quartz or other material.

Variations to published access rates MCN reserves the right to periodically modify tier pricing from those listed in this policy. In these instances, and for a defined period of time, an updated pricing schedule will be advertised with advanced notice (e.g. seasonal sale).

**ANFF-VIC: BIOINTERFACE ENGINEERING HUB (SWINBURNE)** — see [here](#)

Capability	Academic/Public Funded	Industry
Variable Angle Spectroscopic Ellipsometer (JA Woollam 2000XI)	\$90 / hour	\$225 / hour
Quartz Crystal Microbalance with Dissipation (Q-Sense E4) <sup>#</sup>	\$90 / hour	\$225 / hour
Plasma Polymer Reactors (Custom)	\$40 / hour	\$100 / hour
Atmospheric Plasma (Diener Plasma)	\$40 / hour	\$100 / hour
Contact Angle (DataPhysics OCA11)	\$40 / hour	\$100 / hour
Multivessel Dip Coater (KSV-NIMA)	\$40 / hour	\$100 / hour
Biointerface Staff Assistance	\$60 / hour	\$150 / hour
Mask Aligner (AOI)	\$90 / hour	\$225 / hour
<b>Swinburne NanoLab Facilities</b> <ul style="list-style-type: none"> <li>• Electron Beam Lithography (Raith 150two)</li> <li>• Ion Beam Lithography (Raith IonLiNE)</li> <li>• Reactive Ion Etching (Samco RIE-101iPH)</li> <li>• Physical Vapour Deposition (K.J. Lesker AXXIS)</li> <li>• Nano-imprint Lithography (Nanonex NXB200)</li> <li>• Femtosecond Laser Micromachining (WoP FemtoLAB)</li> </ul>	\$125 / hour	\$250 / hour
<b>Swinburne Biological Facilities</b> <ul style="list-style-type: none"> <li>• Confocal Microscopy</li> <li>• Cell culture biocabinets</li> <li>• Epi-Fluorescence</li> <li>• Plate Reader</li> <li>• Spectrophotometer</li> </ul>	Quote on request	Quote on request

<sup>#</sup>Additional consumables costs will apply

**ANFF-VIC: CENTRE FOR MATERIALS & SURFACE SCIENCE (LA TROBE)** — see [here](#)

La Trobe Flagship Equipment (Sorted by capability area)		
	Academic/Public funded	Industry
<b>PRICING</b>	\$150 / hour	Quote on request
<b>Surface Analysis</b>	ToF-SIMS (DSC/GCIS)	
	XPS Nova/Ultra	
	Scanning Auger Nanoprobe (PHI 710 Auger Nanoprobe)	

La Trobe Tier 1 Equipment (Sorted by capability area)		
	Academic/Public funded	Industry

	\$50 / hour	Quote on request
<b>Surface Analysis</b>	Scanning Probe Microscopy (Asylum Research MFP-3D-SA and BIO)	
	SEM (Zeiss Leo 1455)	
<b>Characterisation</b>	Contact Angle Meter (DataPhysics OCA20)	
	XRD D2 Phaser	
	pXRF	

La Trobe Other Instruments and Charges		
Instrument	Academic/Public funded	Industry
X-ray $\mu$ CT (Xradia XCT200)	\$250 / hour (\$1200 cap >5 hours)	Quote on request
X-ray $\mu$ CT – scan > 5hr	\$1000/scan	Quote on request
La Trobe Staff Assistance	\$65 / hour	Quote on request

**ANFF-VIC: LTCC & MICRO NANO RESEARCH FACILITY (RMIT) — see [here](#)**

LTCC (Low Temperature Co-Fired Ceramics)		
	Academic/Public funded	Industry
<b>PRICING</b>	\$35 / hour	Quote on request
<b>Custom Green Tape Ceramics Production</b>	Ball Mill (micro powder)	
	Ball Mill (nano powder)	
	Polymer Binder Preparation	
	Tape Caster	
	Laser Machining System	
	Silk Screening	
	Green Tape Stacker/Aligner/Trimmer	
	Isostatic Press	
	Firing Furnace	

Micro Nano Research Facility (MNRF) Capabilities		
	Academic/Public funded	Industry
<b>PRICING</b>	\$50 / hour	Quote on request
<b>Lithography/Thin Film Deposition</b>	Heidelberg MLA 150 – direct write laser lithography	
	Suss RC8 Gyrosett Spinner	
	Lesker Electron Beam Evaporator	

Lesker Sputterers
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### OTHER CHARGES

	Academic/Public Funded	Industry
MNRF Staff Assistance	\$60 / hour	\$60 / hour
Training	\$60 / hour	\$60 / hour

### ANFF-VIC: MATERIALS CHARACTERISATION & FABRICATION PLATFORM (UNIV of MELBOURNE) — see [here](#)

#### MCFP Capabilities

Instrument	Academic/Public funded	Industry
Contact Angle Measurement	\$50 / hour	\$300/hr
Cypher AFM	\$50 / hour	\$300/hr
Jupiter AFM	\$50 / hour	\$300/hr
MFP3D AFM – Acoustic Hood	\$50 / hour	\$300/hr
NanoSight NS300	\$100 / hour	\$300/hr
Nikon A1R+ Confocal Microscope	\$100 / hour	\$300/hr
Reinshaw RM 1000 (Raman)	\$100 / hour	\$300/hr
He Ion Microscope (HIM)	\$100 / hour	\$300/hr
Hitachi FlexSEM (SEM)	\$100 / hour	\$300/hr

### ANFF-VIC: INSTITUTE FOR FRONTIER MATERIALS HUB (DEAKIN) — see [here](#)

#### Filament Production

Instrument	Academic/Public funded	Industry
<b><u>Wet Spinning</u></b>		
Dissol Wet Spinning Line (Small)	\$41 / hour	\$103 / hour
Dissol Wet Spinning Line (Large)	\$62 / hour	\$154 / hour
<b><u>Electrospinning</u></b>		
Lab Electrospinning Setup #1	\$41 / hour	\$103 / hour
Lab Electrospinning Setup #2	\$41 / hour	\$103 / hour
Holmark Electrospinning	\$62 / hour	\$154 / hour
Nanospinner	\$92 / hour	\$231 / hour
<b><u>Melt Extrusion</u></b>		

Wayne twin-screw blending line	\$62 / hour	\$154 / hour
Lab miniextruder	\$41 / hour	\$103 / hour
Wayne single-screw blending line	\$62 / hour	\$154 / hour
Hills bicomponent extruder	\$92 / hour	\$231 / hour
<b>Yarn Production</b>		
<b>Instrument</b>	<b>Academic/Public funded</b>	<b>Industry</b>
<b><u>Sample Prep</u></b>		
Cotton sample - opener	\$62 / hour	\$154 / hour
Cotton sample - card	\$62 / hour	\$154 / hour
Cotton sample - draw frame	\$62 / hour	\$154 / hour
Cotton sample - comb	\$62 / hour	\$154 / hour
Cotton sample - roving frame	\$62 / hour	\$154 / hour
<b><u>Sample Spinning</u></b>		
Spin tester 1 - cotton	\$62 / hour	\$154 / hour
Spin tester 2 - wool	\$62 / hour	\$154 / hour
Mesdan Spin tester 3 – cotton	\$62 / hour	\$154 / hour
Spin tester 4	\$62 / hour	\$154 / hour
<b><u>Cotton (commercial)</u></b>		
Cotton card and blow room	\$92 / hour	\$231 / hour
Cotton draw frame	\$62 / hour	\$154 / hour
Vouk RD300/lap former	\$62 / hour	\$154 / hour
Vouk CM400/S cotton comb	\$62 / hour	\$154 / hour
Zinser roving frame	\$62 / hour	\$154 / hour
Zinser type 350 ring spinning	\$92 / hour	\$231 / hour
Automated bobbin winding	\$62 / hour	\$154 / hour
<b><u>Yarn Prep</u></b>		
Sample bobbin winding	\$26 / hour	\$65 / hour
Agtek twister	\$41 / hour	\$103/ hour
Agtek wrapper	\$41 / hour	\$103/ hour
Braiding	\$41 / hour	\$103/ hour
<b>Textile Construction</b>		
<b>Instrument</b>	<b>Academic/Public funded</b>	<b>Industry</b>
<b><u>Weaving</u></b>		

CCI single end sizing	\$41 / hour	\$103/ hour
<b><u>Weaving - light</u></b>		
3-meter sample warping	\$62 / hour	\$154 / hour
CCI weaving loom – light	\$62 / hour	\$154 / hour
<b><u>Weaving – heavy</u></b>		
Large sample warping	\$62 / hour	\$154 / hour
CCI weaving loom – heavy	\$62 / hour	\$154 / hour
<b><u>Non-wovens</u></b>		
Mesdan sample card	\$62 / hour	\$154 / hour
Green sample card	\$62 / hour	\$154 / hour
Small blue sample card	\$62 / hour	\$154 / hour
Large carding collector	\$62 / hour	\$154 / hour
Smal carding collector	\$62 / hour	\$154 / hour
Needle punch	\$62 / hour	\$154 / hour
<b><u>Knitting – circular</u></b>		
Cord circular knitter	\$41 / hour	\$103/ hour
100mm bed circular knitter 1	\$41 / hour	\$103/ hour
300mm bed circular knitter 1	\$41 / hour	\$103/ hour
300mm bed circular knitter 2	\$41 / hour	\$103/ hour
<b><u>Knitting – flatbed</u></b>		
Shima whole garment knitting – glove	\$62 / hour	\$154 / hour
Shima flatbed knitting	\$62 / hour	\$154 / hour
<b>Textile Deconstruction</b>		
<b>Instrument</b>	<b>Academic/Public funded</b>	<b>Industry</b>
Pierret Guillotine	\$41 / hour	\$103/ hour
OMMI lab-scale defibering line	\$92 / hour	\$231 / hour
<b>Miscellaneous</b>		
<b>Instrument</b>	<b>Academic/Public funded</b>	<b>Industry</b>
Staple cutting	\$26 / hour	\$65 / hour
SDL Shirly trash analyser – cotton	\$26 / hour	\$65 / hour
SDL Shirly trash analyser – wool	\$26 / hour	\$65 / hour
Bale press	\$26 / hour	\$65 / hour
Hemp stem decorticator	\$26 / hour	\$65 / hour

Analysis		
Instrument	Academic/Public funded	Industry
Porometer 3GHz Quantachrome	\$62 / hour	\$154 / hour
Uster tensorapid 4	\$62 / hour	\$154 / hour
Agilent UTM150 fiber tensile tester	\$41 / hour	\$103/ hour
Favimat	\$92 / hour	\$231 / hour
Sifan 4	\$41 / hour	\$103/ hour
Ahiba IR Pro	\$41 / hour	\$103/ hour
Burst tester	\$41 / hour	\$103/ hour
OFDA	\$41 / hour	\$103/ hour
Sweating Guarded Hotplate	\$62 / hour	\$154 / hour
30kN Instron	\$62 / hour	\$154 / hour
Datacolour	\$41 / hour	\$103/ hour

**ANFF-VIC: BIOMEDICAL MATERIALS TRANSLATION FACILITY & MATERIALS CHARACTERISATION AND MODELLING HUBS (CSIRO)**

BMTF Capabilities – see <a href="#">here</a> for contact details		
Instrument	Academic/Public funded	Industry
Parylene Coater	\$500/run*	Quote on request
Aerosol Spray Coater	\$50 / hour	Quote on request
BMTF Staff Support	\$250 / hour	Quote on request
Materials Characterisation and Modelling Capabilities – see <a href="#">here</a> for contact details		
Instrument	Academic/Public funded	Industry
XPS (Kratos AXIS Nova/Ultra-DLD)	\$75/hour	Quote on request
Specialist data consultation / Staff support	\$269/hour	Quote on request
X-ray $\mu$ CT Scanner (ZEISS Xradia 515 Versa)	\$250 / hour (\$1200 cap >5hours)	Quote on request
X-ray $\mu$ CT Scanner (ZEISS Xradia 515 Versa) scan > 5hr	\$1000/scan	Quote on request

\*Consumables charges will apply

## ANFF-VIC: GENERAL POLICIES

All training requests are conducted at the sum cost of ANFF-Vic staff assistance plus the relevant tool costs.

All job requests for independent completion by a process are conducted at the sum cost of staff assistance plus the relevant tool costs.

Small volumes of basic consumables are included in the price for major and minor equipment; however, large volumes or specialised consumables (e.g. substrate materials) will be at full cost to the user and must be arranged with a process engineer. Any retooling will be charged to the user at cost.

In addition to all other induction, operational health and safety and training requirements, researchers who wish to gain unassisted status must complete (and be assessed for competency against) application-specific training provided by the ANFF-Vic process engineers.

Discounts are available at MCN through setup of non-refundable pre-paid accounts for instrument utilisation. Discounts do not apply to residencies, consumables or staff assistance.

PRE-PAID PURCHASE	DISCOUNT
\$2,000 pre-paid account	15%
\$5,000 pre-paid account	20%
\$10,000 pre-paid account	25%
\$25,000 pre-paid account	30%

## ANFF-VIC: REPORTING REQUIREMENTS

Users are requested to acknowledge this access program in publications as follows:

“This work was performed in part at the **[insert name]** Node of the Australian National Fabrication Facility. A company established under the National Collaborative Research Infrastructure Strategy to provide nano- and micro-fabrication facilities for Australia’s researchers.”

The ANFF-Victoria logo (available from the [www.nanomelbourne.com](http://www.nanomelbourne.com) website) should also be included on the acknowledgements slide of any presentation. In addition, users funded by travel grants will need to meet the requirements of that grant.

## 5. APPENDICES

N/A

## 6. REFERENCES

The ANFF Ltd. Access and Pricing Policy.

( [http://www.anff.org.au/sites/all/files/access\\_and\\_pricing\\_policy.pdf?q=3](http://www.anff.org.au/sites/all/files/access_and_pricing_policy.pdf?q=3) )

## 7. DOCUMENT HISTORY AND CONTROL INFORMATION

DOCUMENT HISTORY			PQMS1-MCN-POL-0027-V1
Version no.	Date of Issue	Reviewed by: name	Amendments
1		Dr Dwayne Kirk	Created to PQMS format
2	8/10/15	Dr Paul Spizzirri	Amended pricing, reporting requirements content and general content update for VIC nodes.
3	30/3/17	Tom Eddershaw	Amended pricing, restructured La Trobe listing.
4	01/05/17	Dr Sean Langelier	Sale pricing and precious metals charging info added
5	30/08/17	Dr Sean Langelier	Surcharge for ZEP EBL resist added to flagship pricing, note that pre-paid accounts non-refundable
6	26/03/18	Dr Sean Langelier	Removal of JV-only prepaid requirement
7	06/08/18	Dr Sean Langelier	Fixing of discount price structure per ANFF-VIC Access and Pricing Committee
8	14/08/18	Dr Sean Langelier	Rounded hourly rates for simplicity
9	06/11/18	Dr Paul Spizzirri	Change billing for HF etching station from non-billable to Tier 3 (billable)
10	09/05/2019	Bernie Orelup	Created for GRC
11	08/11/19	Dr Sean Langelier	CPI pricing, addition of tier 4 charge category, addition of charges to some instruments
12	04/06/20	Dr Sean Langelier	Linked consumables charges and other misc. edits
13	10/12/20	Dr Sean Langelier	Migration of basic Laboratories to T4; annual capping introduced on PC2
14	24/11/21	Dr Sean Langelier	Adding new instruments pricing as follows 1. PhableR -Tier 1 2. Nanoscribe- Tier 1 3. Crhritical Fpoint Dryer-Tier 3 4. Leica Stalaris Confocal system-Tier 2 5. Witec Confocal Raman Microscope-Tier 2 6. Keithley Parameter Analyzer-Tier 3 7. Remove-Gold Electroplating (Digital Matrix PMT16)
15	14/02/22	Dr Sean Langelier	Updated MCN instrument list; addition of various ANFF-VIC hub in-kind capabilities; adjustments to hub pricing
16	22/11/22	Dr Sean Langelier	CPI increases to instrument pricing; increased staff assistance rate; private industry lab
17	17/01/23	Dr Sean Langelier	Introduction of training discount

18	3/02/23	Dr. John Zhu	Adding new instrument Profiler Sytus Bruker DektaXT-A as a Tier 2 instrument
19	22/3/23	Dr. John Zhu	3D printer consumables cost changes
20	01/08/23	Dr Sean Langelier	MCN Pricing adjustment to due to significant increases to facility operations; pricing effective from the August 2023 billing cycle.
21	22/8/23	Bernie Orelup	Adding Mask Fabrication Charges
22	30/05/24	Dr. John Zhu	MALDI cost changed from Tier 3 to Tier 2, Adding Nanoscribe consumables
23	10/8/2024	Dr. Sean Langelier and Bernie Orelup	Adding Laser Cutting/Machining system, removing old PECVD, Price increased 2.5% across board for the instrument. For consumables, Nanoscribe consumables increased 2.5%. EBL resist pricing updated. Photo Resist increased 2.5%.
24	09/09/24	Dr Yang Choon Lim	Added ALD precursor consumable price to Table 1.
25	30/04/25	Dr Sean Langelier	Added promotional residency discount for start-ups
26	17/06/25	Dr Sean Langelier	Addition of new CSIRO in-kind XPS
27	06/08/25	Dr. Sean Langelier	Removing the following instrument <ul style="list-style-type: none"> <li>• Estrelas</li> <li>• SAMCO</li> <li>• 3D MicroMac</li> <li>• ULVAC ei-5</li> <li>• PECVD Oxford</li> </ul> From coming soon list
28	13/12/25	Dr. Sean Langelier	Pricing increase per 12-month CPI growth
29	17/04/26	Dr. Sean Langelier	MCFP and Deakin hub pricing adjustments
30	20/05/26	Dr. Sean Langelier	Swinburne hub pricing and offerings

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