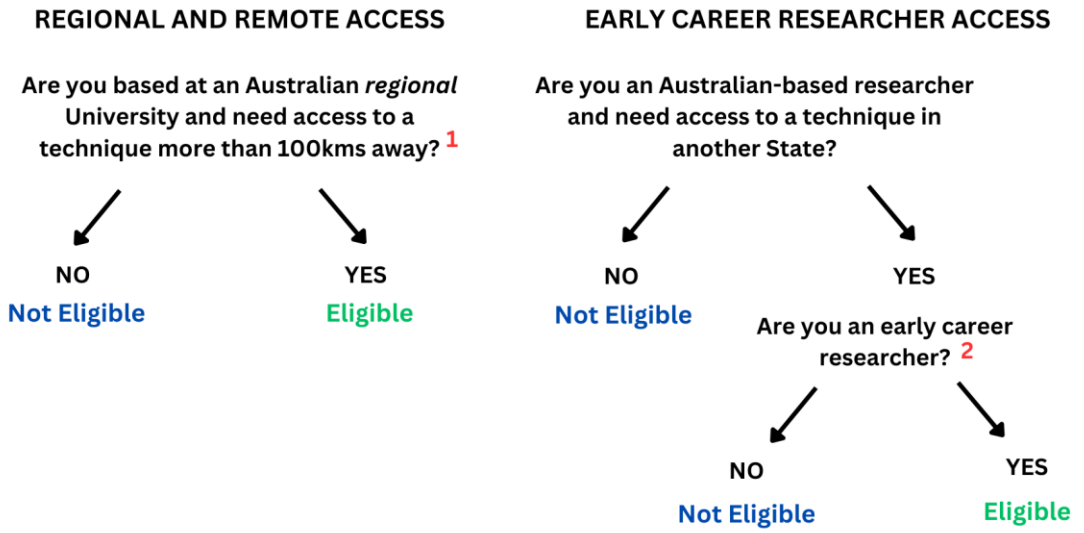
GUIDELINES: Microscopy Australia Access Scheme

Overview	*The Microscopy Australia Access Scheme improves access to advanced microscopy and microanalysis facilities by subsidising rates for Australian-based researchers who need to access a technique or expertise not locally available and:* • *are working in regional and remote areas, or* • *are in early career roles.* *Microscopy Australia already provides subsidised rates, enabled by the National Collaborative Research Infrastructure Strategy (NCRIS). Successful applicants receive a further reduction in rates to enable their research outcomes.* *Scheme overview:* • *two rounds per year – closing in late April and early November* • *maximum subsidy per application – up to $5,000* • *total funding available per round – approximately $25,000* • *applications can request in-person or remote access* *NOTE: Funds are not paid directly to applicants but, instead, an additional subsidy will be applied by the facility to the usage charges.*
Supported Techniques and Expertise	
The techniques and expertise supported by this scheme are listed in Appendix A. For assistance in determining what capability may be required for specific projects, please refer to Technique Finder and the Microscopy Australia website.	
Eligibility	
• PhD students are not eligible to apply • Microscopy Australia facility staff members are not eligible to apply, but instead should consider the Staff Shadowing Program • researchers from Australian businesses should instead seek support through the Industry Subsidy Scheme To determine if you are eligible under one of the scheme's priority areas (regional/remote access or early career researcher), please refer to the decision-tree below:	

MICROSCOPY AUSTRALIA

Access Scheme



1 Eligible institutions are listed in Appendix B.
2 1-5 years post-PhD.
NB The techniques and instruments that are supported by the Access Scheme are listed in Appendix A.

Process

Stage 1 Facility Endorsement

- all applicants must gain support from the relevant facility, following a scientific and technical feasibility review of the proposed project, samples, and usage
- applications for both in-person and remote access will be considered
- contact the relevant facility (see Scientific Contact in Appendix A) to discuss your intention to apply for this scheme and the proposed project
- if endorsed by the facility, please proceed to Stage 2

Stage 2 Application

- complete the online application form
- only one submission per applicant, per round
- complete the application form and provide all required documentation (profile/CV, price estimate or quote, and evidence of matched co-funding)
- applications that have not gained endorsement from the relevant facility will not be considered

Assessment criteria, based on technical and scientific merit:

- applicant 30% (role, expertise, track record relative to opportunity)

- project 20% (significance and innovation, quality of methods and workflows, potential to attract future funding)
- need 30% (instrumentation and/or required expertise with specialist knowledge not available locally)
- benefit and impact 20% (contributions to academic research, society, culture, environment, economy, etc)

Stage 3 Review Panel and Outcomes

- the Panel Chair will distribute applications to the relevant scientific Review Panel
- Panel members will be required to declare any conflict of interest and, if declared, an alternate reviewer will be sourced
- the Panel will assess and rank the applications, with letters of offer distributed to successful applicants and relevant facilities
- no awarded funds are paid to applicants – the facility will pass on the subsidy by way of reduced fees

	Members
MicroAU	Dr Lisa Yen, Panel Chair
Life Sciences	Prof. Filip Braet and Prof. Melanie Rug
Physical Sciences	Prof. Richard Tilley and Prof. Jian-Min Zuo
Environmental and Earth Sciences	Prof. Sarah Harmer and Prof. Roger Wepf

Stage 4 Requirements

Successful applicants must:

- ensure they have relevant independent travel and accident insurance (if not covered by their organisation)
- work directly with the relevant facility to book and access the required instrumentation
- successfully complete all mandatory training as required by the host facility
- ensure subsidised access and a final written report are completed within 12 months of award
- acknowledge Microscopy Australia and the relevant facility in all publications, presentations, and other outputs

TO NOTE

- Decisions of the Review Panel are final.
- It is the applicant's responsibility to ensure that all required paperwork is submitted and relevant approvals obtained through their institution prior to travel and conducting off-site research.
- Awarded subsidies are not transferable between projects or facilities, without written approval, and are not redeemable for cash.

APPENDIX A

Facility abbreviations:
CAM | Centre for Advanced Microscopy, ANU
EMU | Electron Microscope Unit, UNSW
SMM | Sydney Microscopy and Microanalysis, USyd
FMM | Flinders Microscopy and Microanalysis, Flinders
AM | Adelaide Microscopy, AdelU
MCEM | Monash Centre for Electron Microscopy, Monash
Ramaciotti | Ramaciotti Centre for Cryo-Electron Microscopy, Monash
CMM | Centre for Microscopy and Microanalysis, UQ
CMCA | Centre for Microscopy, Characterisation and Analysis, UWA

	University | Facility	Primary Technique	Instrument/Technique	Scientific Contact
ACT	ANU | CAM	Cryo-CLEM	JEOL CryoARM 200	Melanie Rug
ACT	ANU | CAM	Cryo-CLEM	Zeiss LSM800 Airyscan	Melanie Rug
ACT	ANU | CAM	Cryo-CLEM and Cryo-vEM Workflows	Zeiss Crossbeam 550 FIB/FESEM	Melanie Rug
ACT	ANU | CAM	FLIM	Leica Stellaris 8	Melanie Rug
ACT	ANU | CAM	MicroED	JEOL JEM-F200	Melanie Rug
NSW	UNSW | EMU	AC-TEM	JEOL GrandARM 300F ACTEM	Richard Tilley
NSW	USyd | SMM	ATP	Atom Probe INVIZO6000	Filip Braet
QLD	UQ | CMM	Imaging MS	Bruker TIMS TOF FLEX Pro 2M	Roger Wepf
QLD	UQ | CMM	Imaging MS	Waters MRT	Roger Wepf
QLD	UQ | CMM	MicroED	TEM QBP TFS GLACIOS-2 with MicroED	Roger Wepf
QLD	UQ | CMM	SEM	RAITH EBPG5150	Roger Wepf

QLD	UQ | CMM	TEM	Hitachi HF5000 Cs Corrected STEM	Roger Wepf
SA	AdelU | AM	AC-TEM	TEM Titan Themis FEI 200kV TEM with EDS, EELS and Aberration Correction	Ashley Slattery
SA	AdelU | AM	Cryo-TEM	Cryo-TEM FEI Glacios 200kV Cryo-Transmission Electron Microscope	Chris Gibson
SA	AdelU | AM	Lightsheet	Zeiss Lightsheet 7	Kirk Jensen
SA	AdelU | AM	SEM	SEM Hitachi SU3800 Automated Mineralogy	Nobuyuki Kawashima
SA	AdelU | AM	SEM	SEM Hitachi SU8600 Ultra-High-Resolution CFE-SEM	Ken Neubauer
SA	AdelU | AM	SEM	SEM Hitachi SU9000 Ultra-High-Resolution	Ken Neubauer
SA	AdelU | AM	SuperRes	Zeiss LSM980 Super-Resolution Confocal with Airyscan 2	Kirk Jensen
SA	AdelU | AM	ToF-SIMS	PHI TRIFT V nanoToF ToF-SIMS	Alex Cavallaro
SA	AdelU | AM	XFM	X-Ray Fluorescence Microscope	Alex Cavallaro
SA	AdelU | AM	XPS	Environmental XPS	Alex Cavallaro
SA	AdelU | AM	XPS	KRATOS Supra+ XPS	Alex Cavallaro
SA	Flinders | FMM	AES	Scanning Auger NanoProbe	Sarah Harmer
SA	Flinders | FMM	PEEM	Scienta Omicron NanoESCA III Photoemission Electron Microscope (PEEM)	Sarah Harmer
SA	Flinders | FMM	SPM	Scienta Omicron Variable Temperature UHV SPM (VT AFM XA)	Sarah Harmer
SA	Flinders | FMM	SPM	WITec Alpha 300RAS Confocal/Scanning Probe Microscope/NSOM Raman System	Sarah Harmer
VIC	Monash | MCEM	AC-TEM	Double-Corrected FEI Titan3 80-300 FEGTEM	Flame Burgmann
VIC	Monash | MCEM	AC-TEM	Thermo Scientific Spectra φ FEGTEM	Flame Burgmann
VIC	Monash | MCEM	ToF-SIMS and FIB	Helios G5 UX Cryo-FIBSEM	Flame Burgmann
VIC	Monash | Ramaciotti	Cryo-TEM	Thermo Fisher Titan Krios G4 Cryo-TEM	Flame Burgmann
VIC	Monash | Ramaciotti	Cryo-TEM and Cryo-EM Workflows	Thermo Fisher Helios 5 Hydra DualBeam cryo-PFIBSEM	Flame Burgmann

WA	UWA | CMCA	Cryo-SEM	Cryo SEM JSM-IT800	Peta Clode
WA	UWA | CMCA	SIMS and LG-SIMS	Cameca Ion Probe 1280	Laure Martin
WA	UWA | CMCA	SIMS and Nano-SIMS	Cameca NanoSIMS 50	Paul Guagliardo
WA	UWA | CMCA	SIMS and Nano-SIMS	Cameca NanoSIMS-HR	Paul Guagliardo

APPENDIX B

University	Headquartered	State
Charles Darwin University	Darwin	NT
James Cook University	Townsville	QLD
CQUniversity Australia	Rockhampton	QLD
University of the Sunshine Coast	Sippy Downs	QLD
University of Southern Queensland	Toowoomba	QLD
Southern Cross University	Lismore	NSW
University of New England	Armidale	NSW
Charles Sturt University	Bathurst	NSW
Federation University	Ballarat	VIC
University of Tasmania	Hobart	TAS