

## Major Equipment Committee Grants: 2023 Outcomes

A total of \$2.5 million was allocated to 26 successful projects.

<b>Title</b>	<b>Project Lead</b>	<b>College</b>	<b>School</b>	<b>MEC Award</b>
Bio-Plex 200 – multiplex array system	Stephanie Palmer	CHM	JCSMR	\$56,000.00
Neuronavigational enhancement of rTMS treatment of depression	Paul Fitzgerald	CHM	SMP	\$55,838.40
A physiological monitoring unit for measuring thermoregulatory and sleep impairments during heat stress	Nicole Vargas	CHM	SMP	\$ 117,000.00
Expanding horizons with a reliable and fully automated ANU 2.3-metre telescope	Christopher Lidman	CoS	RSAA	\$90,000.00
Exploring the nanoscale world: ZetaView® x30 NEXT GENERATION NANOPARTICLE TRACKING ANALYZER	Riccardo Natoli	CHM	SMP	\$94,613.00
Establishing an Imaging Analysis Hub (IAH) for analysis of organic structures in 3D	Laura Wilson	CASS	RSHA / SAA	\$90,000.00
3D bioprinting tissues and cellular models for medical research	Adam Perriman	CHM	JCSMR	\$67,492.00
PerkinElmer FlexDrop Iq	Amee George	CHM	JCSMR	\$54,000.00
MicroCal PEAQ-ITC for direct and label-free measurement of biomolecule interactions	Christina Spry	CoS	RSB	\$ 134,550.00
Advanced Biometrics for Human-Centred and Affective Computing	Penny Kyburz	CECC	SoCo	\$60,490.00
Full range field spectrometer for high throughput analysis of vegetation and soil	Danielle Way	CoS	RSB	\$74,168.00
Bridging the gap: Expanding ANU capabilities in Near- to Mid-Range InfraRed Nanometre Phase Characterization and Imaging	Laura Otter	CoS	RSES	\$84,686.00

Atom based quantum memory and machine learning	Ben Buchler	CoS	RSPHys	\$ 121,402.11
Expanding ANU capabilities in trace element analysis and quantitative imaging with Tandem Laser Induced Breakdown Spectroscopy (LIBS) - Laser ablation ICPMS (LA-ICPMS)	Gregory Yaxley	CoS	RSES	\$84,800.00
An Active Acoustic Chamber Facility	Prasanga Samarasinghe	CECC	SoEng	\$ 125,000.00
ONI NANOIMAGER S SR – an affordable and novice-friendly single-molecule imaging platform with unique features and resolution that are not present in the existing microscopes at ANU.	Tanya Soboleva	CHM	JCSMR	\$ 251,761.60
An in-situ 4D analysis platform for functional photoactive materials	Zongyou Yin	CoS	RSC	\$111,402.00
An intensified optical readout for the CYGNUS-1 Time Projection Chamber	Lindsey Bignell	CoS	RSPHys	\$72,275.00
New facility to test gas and liquid interactions with solids	Valeska Ting / Penny King	CoS	SoEng / RSC / RSES	\$167,700.00
Nano-flow ultra-high performance liquid chromatography and electrospray ionisation to leverage advanced mass-spectrometry for chemistry, biology, medicine and archaeology	Adam Carroll	CoS	RSC	\$79,556.58
Establishing a Database of Full-text News Media for ANU Researchers	Darren Halpin	CASS	RSSS / SPIR	\$120,000.00
Tunable laser for strong light-matter coupling in novel semiconductors	Elena Ostrovskaya	CoS	RSPHys	\$88,397.03
High Pressure Inductively Coupled Plasma Technology: From Space to Material processing	Maryna Bilokur	CoS	RSPHys	\$59,208.00

Enabling Nanotechnology for Multidisciplinary Research and Innovation	Neelam Gogoi	CoS	RSB	\$56,788.00
Essential in-house X-ray quantification equipment for research physics and materials studies	Wilfred Fullagar	CoS	RSPHys	\$76,000.00
Nonlinear spectroscopy at the nanoscale from extreme ultraviolet to infrared	Sergey Kruk	CoS	RSPHys	\$106,873.27

## Major Equipment Committee Grants: 2022 Outcomes

A total of \$1.717 million was allocated to 15 successful projects.

Title	Project Lead	College	School	MEC Award
A new detector for enhanced single crystal crystallography capabilities	Jamie Hicks	College of Science	School of Chemistry	\$120,000.00
An Advanced Nanopore Sensing Facility	Patrick Kluth	College of Science	Research School of Physics	\$67,000.00
High resolution, low cost, cellular fluoro-respirometry for understanding mitochondrial function in animals and plants	Daniel Noble	College of Science	Research School of Biology	\$110,000.00
The Leica Stellaris 8 Platform: bringing live cell super resolution microscopy to ANU	Leonie Quinn	College of Health and Medicine	The John Curtin School of Medical Research	\$250,000.00
IndigiVoice: Yarning with First Nation Change-Makers and Communities	Jason Field	College of Arts and Social Sciences	Centre for Aboriginal Economic Policy Research (CAEPR)	\$31,000.00
Glass 3D Printer	Jeffrey Sarmiento	College of Arts and Social Sciences	Research School of Humanities and the Arts Research School of Physics	\$59,000.00
Facility for Energy Security and Resilience Research	Elizabeth Ratnam	College of Engineering and Computer Science	School of Engineering	\$100,000.00

Tip-enhanced Raman Spectroscopy	Yuerui Lu	College of Engineering and Computer Science	School of Engineering	\$110,000.00
Ultra-performance liquid chromatography-mass spectrometry (UPLC-MS) platform for synthesis, chemical biology and drug discovery	Lara Malins	College of Science	School of Chemistry	\$130,000.00
State-of-the-art gravimeter for groundwater mapping, planetary exploration, and inertial navigation in civilian and defence scenarios	John Close	College of Science	Research School of Physics	\$110,000.00
Nutrients and carbon sequestration analysis capabilities	James Latimer	College of Science	Fenner School of Environment & Society	\$185,000.00
Enhancing Sample Processing Capabilities For Multidisciplinary Research	Larissa Schneider	College of Asia and the Pacific	School of Culture, History and Language, CAP	\$60,000.00
Next generation high field Electron Paramagnetic Resonance	Nick Cox	College of Science	School of Chemistry	\$120,000.00
An ultra-stable laser for europium spectroscopy	Rose Ahlefeldt	College of Science	Research School of Physics	\$115,000.00
Maintaining ANU capabilities in trace element analysis by laser ablation inductively coupled plasma-mass spectrometry	Brett Knowles	College of Science	Research School of Earth Sciences	\$150,000.00