

**MinEx CRC Limited**

Location: Curtin University Drilling Analytics Research Centre (DARC),  
 Building 619, 3 De Laeter Way, Bentley, WA 6102  
 Postal Address: 26 Dick Perry Avenue, Kensington, WA, 6151  
 Email: admin@minexcrc.com.au



ABN: 66 625 533 913

NAME	DEGREE	UNIVERSITY	STATUS	SUPERVISORS	RESEARCH PROJECT TITLE	MINEX PROJECT
Adnan Haider	PhD	Adelaide University	Current	Ben van der Hoek; Caroline Tiddy (Adelaide University); Lequn Zhang (CSIRO); Steven Tassios (CSIRO)	Geostatistics and Machine Learning applied to LIBS geochemical data	3
Adrienne Brotodewo	PhD	UniSA	Completed	Caroline Tiddy (UniSA); Diana Zivak (Uni of Adelaide); David Giles (UniSA); Adrian Fabris (GSSA)	Zircon as a geochemical exploration tool for iron oxide-copper-gold deposits: a case study of the Gawler Craton, South Australia	8 (Ph01)
Alejandra Bedoya Mejia	PhD	Uni of Adelaide	Completed	Stijn Glorie (Uni of Adelaide); Chris Kirkland (Curtin); Martin Hand (Uni of Adelaide); David Kelsey (GWSA)	Thermochronology of the margins of 'The Gap', Western Australia	7.5
Alexander De Vries Van Leeuwen	PhD	UniSA	Completed	Tom Raimondo (UniSA); Laura Morrissey (UniSA); Martin Hand (Uni of Adelaide); Rian Dutch (GSSA); Joel Fitzherbert (GSNSW)	Petrochronological framework of the Curnamona Province and the role of radiogenic heating	8 (Ph01)
Alexander Simpson	PhD	Uni of Adelaide	Completed	Stijn Glorie (Uni of Adelaide); Martin Hand (Uni of Adelaide); Anthony Reid (GSSA)	Development of laser ablation collision/reaction cell Lu-Hf geochronology	8 (Ph01)
Alisya Syed	PhD	UNSW	Current	Indrani Mukherjee (UNSW); Ian Graham (UNSW); Chris Folkes (GSNSW); Joel Fitzherbert (GSNSW)	Geochemical Tools for Ore Exploration: Investigating Resistance Phase Minerals Chemistry in the Cobar Basin	7.5
Andreas Bjork	PhD	Adelaide University	Current	David Giles; Caroline Tiddy (Adelaide University); James Austin (CSIRO)	Application of the multi-sensor core logger for petrophysical analysis and geophysical modelling	7.3
Andrés Sifuentes Chamochumbi	PhD	Adelaide University	Current	Caroline Tiddy; Adam Simpson; Jennifer McKay; Vicky Waye (Adelaide University); Benjamin Zammit (SA Department of Energy and Mining)	Impacts of technology development on social and governance frameworks in the context of mineral exploration	7.5
Angus Nixon	PhD	Uni of Adelaide	Completed	Stijn Glorie (Uni of Adelaide); Alan Collins (Uni of Adelaide); Geoff Fraser (GA)	Low-temperature thermal evolution of the McArthur Basin and adjacent Proterozoic orogens	8 (Ph01)
Aruni Rajanayake	PhD	Curtin	Current	Brett Harris (Curtin); Andrew Pethick (Curtin); Fiona Best (South32)	Innovative geophysics for drilling trajectory control	4
Bianca Palombi	PhD	University of Newcastle	Current	Brett Neilan (UN); Caitlin Romanis (UN); Chris Folkes (GSNSW); Nathan Reid (CSIRO)	Microbial diversity and their genetic basis for heavy metal resistance in regolith	7.5
Darwinaji Subarkah	PhD	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide); Juraj Farkas (Uni of Adelaide); Morgan Blades (Uni of Adelaide); Amber Jarrett (NTGS); Geoff Fraser (GA)	The sedimentary geochemistry and geochronology of the Proterozoic greater McArthur Basin, northern Australia	8 (Ph01)
David Yani-Akofur	PhD	Monash	Current	Peter Betts (Monash); David Giles (UniSA); Phillip Skladzien (GSV)	Predicting gold mineralisation: Using geophysics and petrophysical characteristics to map prospective structures under cover	7.3

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Elnaz Khazaie	PhD	Adelaide University	Current	Alan Collins; Juraj Farkas; Stefan Lohr (Adelaide University); Peter Haines (GSWA)	Novel isotope techniques for basin exploration: Chrono and chemostratigraphy of the Officer Basin	7.1
Emad Al-Hemyari	PhD	Curtin	Current	Andrej Bona (Curtin); Konstantin Tertyshnikov (Curtin); Tim Dean (Anglo American)	Seismic data processing and inversion with distributed acoustic sensing and artificial intelligence	5
Ernest Opoku	PhD	Adelaide University	Current	Caroline Tiddy; Adrienne Brotodewo (Adelaide University); Jennifer Porter (GSWA); Anthony Budd (GA)	Resistate mineral chemistry for Cu-Au exploration	7.5
Fernando Fontana	PhD	UniSA	Completed	Caroline Tiddy (UniSA); Ben van der Hoek (UniSA); Steven Tassios (CSIRO); Yulia Uvarova (CSIRO); Neil Francis (CSIRO)	Laser-induced breakdown spectroscopy for downhole chemical assay	3
Himanshu Sekhar Bal	PhD	Curtin	Current	Chris Clark (Curtin); Chris Kirkland (Curtin); Ravikant Vadlamani (IIT - Kharagpur); David Kelsey (GSWA)	Extracting petrological information from low sample volumes	7.5
Hing Hao Chan	PhD	Curtin	Current	Masood Mostofi (Curtin); Dimple Quyn (Curtin); Thomas Richard (Curtin); Yevhen Kovalyshen (CSIRO)	Effect of wear on drilling response of an impregnated diamond bit	1
Hing Hao Chan	Masters by Research	Curtin	Completed	Masood Mostofi (Curtin); Thomas Richard (Curtin); Aaron Earl (McKay Drilling)	A method to derive rock strength from the drilling response of impregnated diamond bit	1
Ivan Gutierrez Agramont	PhD	UniSA	Completed	Caroline Tiddy (UniSA); Ben van der Hoek (UniSA); Lequn Zhang (CSIRO); Steve Tassios (CSIRO)	Machine learning-based synthetic data generation for predicting (downhole) Laser Induced Breakdown Spectroscopy (LIBS) assay data	3
Jasmin Hiller	PhD	Adelaide University	Current	Laura Morrissey; Justin Payne; Casey Doolette (Adelaide University); Carmen Krapf (GSSA)	Developing a model for the exploration of clay-hosted rare earth elements	7.5
Jie Yu	PhD	Uni of Adelaide	Completed	Martin Hand (Uni of Adelaide); Justin Payne (UniSA); Laura Morrissey (UniSA); Claire Wade (GSSA)	The early Mesoproterozoic tectonic systems and IOCG mineralisation in the northern Gawler Craton	8 (Ph01)
Joao Victor Santos	PhD	Curtin	Completed	Thomas Richard (Curtin); Masood Mostofi (Curtin); Bevan Eagle (McKay Drilling); Yevhen Kovalyshen (CSIRO)	Experimental study of down-the-hole percussive drilling	1
Joe Schifano	PhD	UNSW	Completed	David Cohen (UNSW); Neil Rutherford (UNSW/Rutherford Mineral Resource Consultants); John Greenfield (GSNSW)	Regional biogeochemical sampling (and associated regolith studies) of the Cobar Basin for mineral exploration at regional to local scales	9 (Ph01)

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Justine Flahaut	PhD	Adelaide University	Current	Justine Payne; Laura Morrissey; Tom Raimondo; Carl Spandler (Adelaide University); Claire Wade (GSSA)	New approaches for rapid analysis and tracing of fluids and their ligands in regional mineral systems	7.5
Lim Eu Kean	PhD	Curtin	Current	Masood Mostofi (Curtin); Thomas Richard (Curtin); Dimple Quyn (Curtin); Alton Grabsch (CSIRO)	Non-newtonian fluid flow in naturally fractured rocks with application in fluid loss control	1
Linde Li	PhD	Adelaide University	Current	Juraj Farkas (Adelaide University); Joel Brugger (Monash); Adrian Fabris (GSSA); Rudy Gomez (Cartwheel)	Potassium isotope tracing and novel dating of potassic alteration associated with iron oxide copper-gold systems of the Gawler Craton	Company Sponsored
Lizzie Bruce	PhD	UWA	Current	Vitaliy Ogarko (UWA); Mark Jessell (UWA); Richard Chopping (GSWA)	Tomofast-x gravity-magnetic inversion to map greenstone belts in archean and paleo proterozoic terrains	6
Lizzie Bruce	Masters by Research	UWA	Completed	Mark Jessell (UWA); Vitaliy Ogarko (UWA); Richard Chopping (GSWA)	Tomofast-x gravity inversion to analyse the upper crustal structure of Archean greenstone belts	6
Lucy Mathieson	PhD	Curtin	Current	Chris Kirkland (Curtin); Chris Clark (Curtin); Klaus Gessner (GSWA)	Mapping radiogenic Pb loss in space and time: a new tool to track fluid rock interaction	8 (Ph01)
Luke Tylkowski	PhD	UniSA	Completed	Caroline Tiddy; Adrienne Brotodewo; David Giles (UniSA); Ross Cayley (GSV); Rob Thorne (CSIRO)	Apatite from the Castlemaine Group: Implications for provenance and mineral exploration	8 (Ph01)
Mahtab Rashidifard	PhD	UWA	Completed	Mark Jessell (UWA); Jeremie Giraud (UWA); Mark Lindsay (UWA); Vitaliy Ogarko (UWA); Richard Chopping (GSWA); Steven Micklethwaite (Anglo American)	The integration of regional reflection seismic profiles and gravity datasets with different spatial coverage associated with geological models	6
Maryam Abdollahi	PhD	Curtin	Current	Masood Mostofi (Curtin); Dimple Quyn (Curtin); Thomas Richard (Curtin); Yevhen Kovalshen (CSIRO)	Polymer-based drilling fluid loss behaviour in fractured and high-permeability formations: an experimental study	1
Mikhail Vorobev	PhD	Curtin	Current	Konstantin Tertyshnikov (Curtin); Roman Isaenkov (Curtin); Roman Pevzner (Curtin); Tim Dean (Anglo American)	Passive seismic imaging and monitoring	5
Mitchell Bockmann	PhD	Uni of Adelaide	Completed	Martin Hand (Uni of Adelaide); Justin Payne (UniSA); Laura Morrissey (UniSA); Claire Wade (GSSA)	The early Mesoproterozoic tectonic and thermal evolution of the eastern Gawler Craton: implications for mineral systems in eastern Proterozoic Australia	8 (Ph01)
Mosayeb Khademi Zahedi	PhD	UniSA	Completed	David Giles (UniSA); Caroline Tiddy (UniSA); Andrej Bona (Curtin); Mark Lindsay (CSIRO)	Linking Geophysics and Geology Through Borehole Data: A Framework for Quantifying the Value of Information in Mineral Exploration	5

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Naina	PhD	ANU	Completed	Greg Yaxley (ANU); Anthony Reid (GSSA); Geoff Fraser (GA)	Missing pieces in the deformation and thermal history along the Cambro-Ordovician Delamerian Orogen, South Australia	8 (Ph01)
Nikita Beloborodov	PhD	Curtin	Current	Roman Pevzner (Curtin); Olivia Collet (Curtin); Konstantin Tertyshnikov (Curtin); Ilnur Minniakhmetov (BHP)	Seismic imaging and monitoring using low-power and ambient sources	5
Oliver Pring	PhD	Adelaide University	Current	Lucy McGee; Carl Spandler; Justin Payne (Adelaide University); Phillip Blevin (GSNSW)	Tracing the movement of metals through the mantle and crust using Cu isotopes	7.5
Osama Adullah A Alzubaidi	Masters by Research	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide); Juraj Farkas (Uni of Adelaide); Marnie Forster (ANU); Geoff Fraser (GA)	Novel dating of fluid-flow metallogenic events in East Tennant Creek region, Northern Territory, Australia: Insights from the coupled in-situ Rb-Sr and Ar-Ar geochronology of micas and feldspars	7.5
Ranee Joshi	PhD	UWA	Current	Mark Jessell (UWA); Nicholas Thebaud (UWA); Mark Lindsay (CSIRO); Tim Ivanic (GSWA)	Multi-scale 3D geological modelling of the Yalgoo-Singleton greenstone belt using the Loop Platform	6
Rebecca Fogliani	PhD	Curtin	Current	Thomas Richard (Curtin); Masood Mostofi (Curtin); Henna Jussila (Sandik); Yevhen Kovalishen (CSIRO)	Percussion drilling: sweet spot and effect of bit wear	1
Rory Carter	PhD	UNSW	Current	Ian Graham (UNSW); Indrani Mukherjee (UNSW); David French (UNSW); Brenainn Simpson (GSNSW); Chris Folkes (GSNSW)	Rare earth element (REE) geochemistry, mineralogy, and mobility in the Cobar Basin - from potential primary granite sources to the surface environment	7.1
Rui Huang (Eric)	PhD	Curtin	Completed	Masood Mostofi (Curtin); Thomas Richard (Curtin); Dimple Quyn (Curtin); Yevhen Kovalyshen (CSIRO)	Experimental study of impregnated diamond bit wear	1
Ruiqi Zheng	PhD	Adelaide University	Current	Juraj Farkas; Alan Collins; Justin Payne; David Giles (Adelaide University); Erick Ramanaidou (CSIRO)	Geological and geochemical constraints on the origin and diagenetic history of Neoproterozoic Breamar ironstones (SA) based on new metal isotope (Fe, Cr) and REE proxies	Company Sponsored
Sam (Hamid) Bishanikalatehahmad	PhD	Adelaide University	Current	Graham Heinson; Lucy McGee (Adelaide University); David DeTata (SEG); Chris Yeats (SEG)	Investigating crustal anomalies in the Curnamona-Mundi Mundi region using an integrated geophysical approach	Company Sponsored
Sana Zulic	Masters by Research	Curtin	Completed	Masood Mostofi (Curtin); Roman Pevzner (Curtin); Konstantin Tertshnikov (Curtin); Sara Jakica (GSWA)	Advanced borehole seismic imaging techniques for mineral exploration	5

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Saurabh Pandit	Masters by Research	UWA	Completed	Mark Jessell (UWA); Mark Lindsay (UWA); Christian Seiler (Anglo American)	3D Structural geological modelling of the potential for sedimentary-hosted base metals deposits in the undercover part of Mount Isa South, Queensland	6
Snehal Jayakumar	Masters by Research	Curtin	Current	Masood Mostofi (Curtin); Dimple Quyn (Curtin); Yevhen Kovalyshen (CSIRO)	Cutting transport in RC drilling using compressible fluids	1
Stacey Curtis	PhD	Adelaide University	Current	Justin Payne; Laura Morrissey; Lucy McGee; Tom Raimondo (Adelaide University); Mark Pawley (GSSA)	Integrated framework for the igneous and metallogenic evolution of the greater Delamerian Orogen	8 (Ph01)
Su Kwong Lee	Masters by Research	Curtin	Completed	Thomas Richard (Curtin); Masood Mostofi (Curtin); Yevhen Kovalyshen (CSIRO)	Methods to detect inadequate bit cleaning in diamond drilling	1
Taige Liu	Masters by Research	University of Western Australia	Current	Vitaliy Ogarko; Jeremie Giraud; Mark Jessell (UWA); Richard Chopping (GSWA)	Benchmarking Geophysical Inversion Using Controlled Buried Targets	6
Travis Batch	PhD	UniSA	Completed	Caroline Tiddy (UniSA); Adrienne Brotodewo (UniSA); David Giles (UniSA); Vasek Metalka (AIC Mines); Mike Taylor (AIC Mines)	Monazite and rhabdophane chemistry for Cu-Au exploration in eastern Proterozoic Australia	Company Sponsored
Yoli Wu	Masters by Research	ANU	Current	Dorrit Jacob (ANU); Oliver Alard (ANU); Richard Chopping (GSWA)	Application of argon geochronology to constrain shear zone movement and exhumation of the northern and eastern margins of the West Australian Craton	7.5
Zara Woolston	PhD	Adelaide University	Current	Juraj Farkas; Lucy McGee; Carl Spandler; David Chittleborough (Adelaide University); Anna Petts (GSSA); Alicia Caruso (GSSA); Chris Folkes (GSNSW); Richard Chopping (GSWA);	Tracing subsurface ore deposits through the isotope analysis of regolith/cover in Australia: Coupled Cu and S isotope approach applied to a rock-soil-water-plant system	8 (Ph01)
Zhufu Shao	PhD	Uni of Adelaide	Completed	Juraj Farkas (Uni of Adelaide); Alan Collins (Uni of Adelaide); Stijn Glorie (Uni of Adelaide); Charles Verdel (NTGS)	Novel isotope techniques for basin exploration: in-situ dating and metal isotope analysis of glauconite/apatite from the Georgina Basin	7.5

CURRENT	32
COMPLETED	25