

**MinEx CRC Limited**

Location: Curtin 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
Adrian McCafferty	Honours	UniSA	Completed	Justin Payne (UniSA), Anna Petts (Geological Survey of SA), Carmen Krapf (Geological Survey of SA)	Assessing biogeochemical expression at Blue-Rose copper and gold prospect	7
Alicia De Groot	Honours	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide), Morgan Blades (Uni of Adelaide), Bo Yang (Uni of Adelaide), Jo Whelan (Northern Territory Geological Survey), Amber Jarrett (Geosciences Australia)	Age, tectonic geography and provenance of the Renner Group, Tomkinson Province, Northern Territory	7
Ardian Murti	Masters by Coursework	UniSA & UCL	Completed	Adrienne Brotodewo (UniSA), Caroline Tiddy (UniSA)	Chemical patterns within pyrite from NDI drilling in the Delamerian Orogen, South Australia	7
Bithiah A. Esabunor-Nukie	Honours	Curtin	Completed	Masood Mostofi (Curtin), Dimple Quyn (Curtin)	Predictive simulink modelling of cuttings velocity in drilling fluid for depth matching	1
Chloe Thiel	Honours	Curtin	Completed	Dimple Quyn (Curtin), Masood Mostofi (Curtin)	Software simulation of reverse circulation air drilling	1
Chloe Zou	Masters by Coursework	UniSA & UCL	Completed	Adrienne Brotodewo (UniSA), Caroline Tiddy (UniSA)	Linking pyrite chemistry to mineralization across the Delamerian orogeny, South Australia	7
Christopher Lowczak	Honours	Uni of Adelaide	Completed	Lucy McGee (Uni of Adelaide), Juraj Farkas (Uni of Adelaide)	Copper isotope method development for determining the source of mineralised provinces	7
Conaine Imtiaz Nandolia	Masters by Coursework	Curtin	Completed	Masood Mostofi (Curtin)	Experimental study of drilling fluid contamination	1
Conor Dalton	Honours	Uni of Adelaide	Completed	Lucy McGee (Uni of Adelaide), Justin Payne (UniSA), Mark Reagan (University of Iowa)	Copper movement in active volcanic systems	7
Constantin Goeschl	Masters by Coursework	UniSA & UCL	Completed	Adrienne Brotodewo (UniSA), Caroline Tiddy (UniSA)	Linking pyrite chemistry to prophyry and volcanic massive sulfide (VMS) mineralisation across the Delamerian orogeny, South Australia	7
Cris Cruz	Honours	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide), Morgan Blades (Uni of Adelaide)	Geochronological analysis of the McArthur and Tawallah Groups, McArthur Basin: Age constraints, provenance and implications for basin evolution	7
Danlin Ye	Masters by Coursework	UniSA & UCL	Completed	Adrienne Brotodewo (UniSA), Caroline Tiddy (UniSA)	Chemistry of pyrite in the Delamerian Orogen, South Australia: Implications for mineral exploration	7
Digby Emmett	Honours	Curtin	Completed	Siavash Khaksar (Curtin), Masood Mostofi (Curtin), Thomas Richard (Curtin)	Fluid circulation measurement for automated drilling	1
Dylan Verrier	Honours	Curtin	Completed	Masood Mostofi (Curtin)	Continuation of the experimental study of shale stability using different additives in water based drilling fluid	1

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Erica van der Wolff	Honours	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide), Morgan Blades (Uni of Adelaide), Chris Clark (Curtin), Phil Gilmore (Geological Survey of NSW)	Detrital provenance and geochronology of the Burra, Umberatana and Wilpena Groups in the Mount Lofty Ranges	7
Gananas Chen	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA)	Apatite chemistry of the Kulthor ISCG deposit, Cloncurry, Queensland	7
Gareth McFadzean	Honours	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide), Juraj Farkas (Uni of Adelaide)	Geochemical analysis of the McArthur and Tawallah Groups, McArthur Basin: Chemostratigraphy & palaeo-redox proxies using shales and carbonates	7
Haopeng Ma	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Ben van der Hoek (UniSA)	Environmental economics of MinEx CRC's innovative laser-based downhole geochemical sensor	3
Hetal Bhatia	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA)	Economic modelling of Kapunda ISR copper mine project	7
Jarred Tilby	Honours	Uni of Adelaide	Completed	Lucy McGee (Uni of Adelaide), Justin Payne (UniSA), Simon Turner (Macquarie University)	Copper isotopes tracing metal transport and concentration at the Whakaari embryonic porphyry copper deposit	7
Jiahang Tang	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Ben van der Hoek (UniSA)	Life cycle cost analysis of MinEx CRC's downhole LIBS sensor	3
Jingyan Sun	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Ben van der Hoek (UniSA)	Evaluating the cost and time efficiency of downhole LIBS, portable XRF, and traditional laboratory methods in mining operations	3
John Evgeniy Zhovnyak	Honours	UniSA	Completed	Michael Evans (UniSA), Tim Lau (UniSA), Soren Soe (UniSA)	Coiled tubing drilling for mineral exploration: Low-torque drilling tools	2
Kelly Macdonald	Honours	Uni of Adelaide	Completed	Martin Hand (Uni of Adelaide), Laura Morrissey (Uni of Adelaide)	The timing of high temperature metamorphism at the Snaefell magnetite deposit, South Australia	7
Kexin (Tracy) Wang	Masters by Coursework	UniSA & UCL	Completed	Adrienne Brotodewo (UniSA), Caroline Tiddy (UniSA)	Chemical patterns within pyrite from NDI drilling in the Delamerian Orogen, South Australia	7
Kubra Akbulut	Masters by Coursework	UWA	Completed	Guillaume Pirot (UWA), Mark Jessell (UWA)	Sequence drilling optimization to reduce geological model uncertainty in the Hamersley basin	6
Leonardo Marchetti	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA)	The environmental economics of in-situ copper recovery: A case study	7
Lesley Edwards	Honours	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide), Morgan Blades (Uni of Adelaide)	Deciphering the origin of high carbon shales: The Amungee organofacies conundrum, Velkerri formation, Greater McArthur Basin	7

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Liowellyn Pola	Honours	Curtin	Completed	Masood Mostofi (Curtin)	Simulation of power hydraulic systems using Simulink and Simscape	1
Matthew Barnett	Honours	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide), Darwinaji Subarkah (Uni of Adelaide), Morgan Blades (Uni of Adelaide)	Constraining the hidden Delamerian margin: A geochemical and geochronological analysis of an arc undercover	7
Max Ivan Jiegs Cabato	Honours	UniSA	Completed	Michael Evans (UniSA), Tim Lau (UniSA), Soren Soe (UniSA)	Coiled tubing drilling for mineral exploration: Low-torque drilling tools	2
Melina Holtan	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA)	Apatite chemistry of the Kulthor ISCG deposit, Cloncurry, Queensland	7
Nothando Ndlovu	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), David Giles (UniSA), Alex Norori-McCormac (UCL)	How current South Australia Mineral Exploration Policies may impact on the unrestricted use of mineral exploration technologies being developed within the Mineral Exploration Cooperative Research Centre	7
Oliver Pring	Honours	Uni of Adelaide	Completed	Lucy McGee (Uni of Adelaide), Justin Payne (UniSA), Juraj Farkas (Uni of Adelaide)	The fractionation of copper isotopes in granitic and mafic intrusions: mafic enclaves in the Mannum granite, a case study	7
Oscar Clausen	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA)	Lixiviant comparison for in-situ recover at Kapunda Copper Mine: A cost-benefit analysis	7
Oscar Leon Estacio	Masters by Coursework	Curtin	Completed	Andrej Bona (Curtin), Milovan Urosevic (Curtin)	Passive seismic imaging in mining applications	5
Ozgur Yedek	Masters by Coursework	UWA	Completed	Mark Jessell (UWA), Guillaume Pirot (UWA)	Drillhole data density as a control on 3D modelling of banded iron formations from the hamersley Basin, Western Australia	6
Peter Keller	Honours	Uni of Adelaide	Completed	Morgan Blades (Uni of Adelaide), Alan Collins (Uni of Adelaide), Phil Gilmore (Geological Survey of NSW), Adrian Fabris (Geological Survey of SA)	Neoproterozoic interglacial geochemistry and sedimentology of the Tapley Hill Formation in Kingsmill Kreek, Arkaroola, South Australia	7
Rajveer Singh Jandir	Honours	UniSA	Completed	Michael Evans (UniSA), Tim Lau (UniSA), Soren Soe (UniSA)	Coiled tubing drilling for mineral exploration: Low-torque drilling tools	2
Rui (Eric) Huang	Masters by Coursework	Curtin	Completed	Masood Mostofi (Curtin), Siew Hong Chai (Curtin)	Design of a generic carrier fluid in polymer particle suspension system	1
Sahal Rashed N Mousa	Honours	Curtin	Completed	Masood Mostofi (Curtin)	Testing autonomous data interpretation algorithms	1
Saifullah Abdul Qadir	Masters by Coursework	Curtin	Completed	Brett Harris (Curtin), Michael Carson (Curtin), Hoang Nguyen (Curtin), Aruni Rajanayake (Curtin)	Simulation of electromagnetic acquisition systems for logging while drilling	7

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Samuel Rasch	Honours	Uni of Adelaide	Completed	Alan Collins (Uni of Adelaide)	Dating and characterising a newly discovered sedimentary basin in the East Tennant region	7
Shiyue Zhang	Masters by Coursework	UniSA & UCL	Completed	Adrienne Brotodewo (UniSA), Caroline Tiddy (UniSA)	Linking pyrite chemistry to mineralization across the Delamerian orogeny, South Australia	7
Shutong Wang	Masters by Coursework	Curtin	Completed	Masood Mostofi (Curtin), Siew Hong Chai (Curtin)	Drilling fluid contamination and remediation	1
Tianyi Gao	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Alex Norori-McCormac (UCL)	The unique chemical properties of iron oxide-copper-gold (IOCG) related monazite in the Gawler Craton and as an Exploration Tool for IOCG deposits around the world	7
Ting Guo	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Ben van der Hoek (UniSA)	Environmental impact of LIBS downhole sensor: A mining scenario in Australia	3
Tolga Mercan	Masters by Coursework	UWA	Completed	Weronika Gorczyk (UWA), Franco Pirajno (UWA)	Comparison of hydrothermal alteration pattern of ore-bearing formation of Mount Isa Group with their barren equivalents using HyLogger hyperspectral data	6
Travis Batch	Honours	University of Newcastle	Completed	Robin Offler (University of Newcastle), Ryan Dwyer (University of Newcastle), Mark Eastlake (Geological Survey of NSW)	Investigations into the geology of the Tumut Trough, Lachlan Orogen, NSW	7
Vinicius Cunha De Souza	Masters by Coursework	Curtin	Completed	Ferial Hakami (Curtin), Masood Mostofi (Curtin)	Effect of flocculant on solid removal from drilling fluids	1
Violet Perry	Honours	University of Newcastle	Completed	Robin Offler (University of Newcastle), Ryan Dwyer (University of Newcastle), David Boutelier (University of Newcastle)	Geochemistry of the Loch Lilly-Kars volcanics and correlation along the Tasman Line, Eastern Australia	7
Wei Yao	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Alex Norori-McCormac (UCL)	Monazite chemistry as an indicator for exploration of iron oxide-copper-gold (IOCG) deposits: A mineralogical and geochemical toolkit	7
William Rowe	Honours	Uni of Adelaide	Completed	Lucy McGee (Uni of Adelaide), Laura Morrissey (UniSA), Juraj Farkas (Uni of Adelaide)	Sr-Nd isotopic characteristics of the Kanmantoo Cu-Au deposit	7
Xiaohan Wu	Masters by Coursework	Curtin	Completed	Hongyang Zhang (Curtin), Masood Mostofi (Curtin)	Hydraulics of drilling fluid with particles	1
Xinglong Yang	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Ben van der Hoek (UniSA)	Time and cost benefit analysis of downhole LIBS technology in lithium exploration	3
Yaojia Sun	Masters by Coursework	UniSA & UCL	Completed	Adrienne Brotodewo (UniSA), Caroline Tiddy (UniSA), Travis Batch (UniSA)	Exploring Pyrite Chemistry in relation to Copper Mineralization in the Delamerian Orogen, South Australia	7

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Yifan Yang	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Ben van der Hoek (UniSA)	Economic assessment comparing the cost and benefits of downhole LIBS tool with portable XRF in a mineral exploration scenario	3
Yirong Sun	Masters by Coursework	UniSA	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA), Travis Batch (UniSA)	Apatite chemistry for copper discovery in northern Queensland, Australia	7
Zhaolin Hao	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA), Sudeshna Basugupta (UCL)	A mineralogical and geochemical toolkit for ore deposit targeting	7
Zhenghao Li	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Alex Norori-McCormac (UCL)	Testing monazite as a geochemical exploration tool for targeting iron oxide-copper-gold (IOCG) mineralisation	7
Zhiyuan Xu	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA)	Apatite chemistry of the Kulthor ISCG deposit, Cloncurry, Queensland	7
Zixuan Zhang	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA)	A Study to Assess the Potential of Zircon Chemistry as a Pathfinder in the Exploration of Iron Oxide-copper Gold (IOCG) Deposits and Porphyry Copper-gold Deposits	7
Ziyu Yuan	Masters by Coursework	UniSA & UCL	Completed	Caroline Tiddy (UniSA), Adrienne Brotodewo (UniSA)	A mineralogical and geochemical toolkit for ore deposit targeting	7

CURRENT	0
COMPLETED	63