

CSIRO-RMIT Research Masters Project List (2022 2023)

ID#	Project Title	RMIT Supervisors	RMIT School Program Code	CSIRO Lab Location
1	Off-grid, water desalination system using graphene based membrane	A/Prof Abhijit Date	Engineering MR216	Clayton, VIC
2	Designing Demonstrators to Exhibit the Potential of Next-Generation Photovoltaic Technologies	Dr Maria Spichkova	Science MR229	Clayton, VIC
3	Advancing precision reactivity of electroactive platforms	Prof Ivan Cole Dr Robert Kapsa Dr Anita Quigley	Engineering MR216	Clayton, VIC
4	The development and performance comparison of surface modification strategies of metal composite carrier	A/Prof Ravi Shukla Dr Cathal O'Connell	Engineering MR216	Clayton, VIC
5	In-process temperature measurement and thermal history of metallic 3D printed objects, from melt pool to macro	A/Prof Andrey Molotnikov	Engineering MR216	Clayton, VIC
6	Advanced Materials and Processes for Energy and Environment using Supercritical Fluids	Dr Subashani Maniam	Science MR229	Clayton, VIC
8	Designing Functional Anodes and Electrolytes for Next Generation Commercial Metal Batteries	Dr Nasir Mahmood	Engineering MR216	Clayton, VIC
9	Solution-processed hole-transport layers and vacuum-free organic photovoltaic device fabrication	Dr Dehong Chen Prof Rachel Caruso	Science MR229	Clayton, VIC
10	Development of robust methodologies for the reliable processing of transition metal XPS data and their application to the study of O defects	Dr Enrico Della Gaspera	Science MR229	Clayton, VIC
11	Process development and scale-up of microbial products	A/Prof Tahgrid Istivan	Science MR231	Clayton, VIC
12	Development and characterisation of dairy-plant hybrid milks using Australian protein-rich crops	Prof Benu Adhikari	Science MR232	Werribee, VIC

ID#	Project Title	RMIT Supervisors	RMIT School Program Code	CSIRO Lab Location
14	Extracting energy from a quantum battery	Prof Andrew Greentree	Science MR230	Adelaide, SA
15	Lunar Dust Mitigating Coatings	Prof Stuart Bateman	Engineering MR215	Clayton, VIC
16	Sensor Fusion for Improved Localisation of Autonomous Underwater Vehicles (AUVs)	Dr Akram Hourani Dr Jennifer Palmer	Engineering MR220	Hobart, TAS
17	Knowledge discovery of scientific workflows	Prof Matt Duckham	Science MR223	Highett, VIC
18	Enhancing discovery and use of hydrological data via knowledge graphs	Dr Estrid He Prof Matt Duckham	Science MR223	Highett, VIC
19	Multilayered hybrid functional materials for 3D-cell culture	Dr Shadi Houshyar	Engineering MR216	Clayton, VIC
20	Measuring aerosols and reactive gases in the ambient atmosphere to understand the role of air pollutants on air quality and climate change	Prof Oliver Jones	Science MR229	Aspendale, VIC
21	Development of a Pulsed Discharge Detector gas chromatography technique for measurement of radiatively important halogenated trace gases	Prof Oliver Jones	Science MR229	Aspendale, VIC
22	Characterisation and Analysis of Wafer Level Fabricated Electrode Platforms for Electrochemical Sensing Applications	Prof Sumeet Walia	Engineering MR220	Clayton, VIC
23	Combustion kinetics measurements of hydrogen carrier fuels using gas dynamic shock waves	Dr Petros Lappas	Engineering MR216	Clayton, VIC