

1. IITM-USyd Partnership Collaboration Awardees 2023 Round1

SNO	IITM PI	USyd PI	Project Title
1	Prof Raghuram Chetty Department of Chemical Engineering, Indian Institute of Technology Madras	Prof Kondo-Francois Aguey Zinsou School of Chemistry, Faculty of Science, The University of Sydney	Advanced Free-breathing Direct Ammonia Fuel Cells
2	Assoc Prof Murugaiyan Amrithalingam, Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras	Dr Yi Sheng (Eason) Chen School of Aerospace, Mechanical and Mechatronic Engineering, Faculty of Engineering, The University of Sydney	Microstructural engineering for hydrogen embrittlement resistant high-strength steels
3	Prof Niket S Kaisare, Department of Chemical Engineering, Indian Institute of Technology Madras	Prof Deanna D'Alessandro, School of Chemistry, Faculty of Science, The University of Sydney	Carbon Capture and Recycling Technologies
4	Prof Kothandaraman Ramanujam Department of Chemistry, Indian Institute of Technology Madras	Prof Antonio Tricoli School of Biomedical Engineering Faculty of Engineering The University of Sydney	Boron doped diamond based electrolysis: Giving a second life to industrial waste water

2. IITM-Tel Aviv Partnership Collaboration Awardees 2023 Round1

SNO	IITM PI	Tel Aviv PI	Project Title
1	Prof M.S. Ramachandra Rao, Finst Prof. R. Srinivasan Institute Chair Professor Department of Physics, QuCenDiEM (Quantum Centres in Diamond and Emergent Materials)- Group Nano Functional Materials Technology Centre DST-Solar Energy Harnessing centre (DSEHC) and Materials Science Research Centre, Indian Institute of Technology (IIT) Madras, Chennai, India.	Prof Yoram Dagan School of Physics and Astronomy Tel Aviv University	Study of high pressure and low-temperature effects on transport properties of B, N, and P- doped diamonds: Improving superconducting properties of doped diamonds for quantum device applications
2	Prof Sivarama Krishnan, Associate Professor, Quantum Center of Excellence for Diamond and Emergent Materials and Department of Physics, Indian Institute of Technology, Madras	Prof Ady Arie School of Electrical Engineering, Faculty of Engineering, Tel Aviv University Head of the Tel Aviv University Center for Light-Matter Interaction Tel Aviv University	“Efficient generation of photonic NOON states using shaped pumps and structured crystal”
3	Prof Sivarama Krishnan, Associate Professor, Quantum Center of Excellence for Diamond and Emergent Materials and Department of Physics, Indian Institute of Technology, Madras	Prof. Haim Suchowski Department of Condensed Matter Physics, School of Physics and Astronomy, Faculty of Exact Sciences, Tel Aviv University	Spatio-temporal investigations of light-matter quasiparticles for quantum technologies

3. IITM-NTHU Taiwan Partnership Collaboration Awardees 2023 Round

SNO	IITM PI	NTHU Taiwan PI	Project Title
1	<p>Prof Tuhin Subhra Santra</p> <p>Wellcome Trust /DBT Indian Alliance Fellow</p> <p>Associate Professor, Department of Engineering Design Indian Institute of Technology Madras, India</p>	<p>Dr. Fan-Gang Tseng (ASME Fellow)</p> <p>Professor, Department of Engineering and System Science National Tsing Hua University, Taiwan</p>	SERS Based Glucose Sensing in Tumor Microenvironment using 3D Platform

4. IITM-Deakin Partnership Collaboration Awardees 2023 Round

SNO	IITM PI	Deakin PI	Project Title
1	<p>Dr. Chester Rebeiro Associate Professor Computer Science & Engineering chester@cse.iitm.ac.in IIT Madras</p>	<p>Dr. Adnan Anwar Senior Lecturer Strategic Centre for Cyber Resilience & Trust (CREST) adnan.anwar@deakin.edu.au Deakin University</p>	“Realizing Zero Trust Security in Emerging Energy Infrastructure”
2	<p>Dr. Shanti Swarup Professor Electrical Engineering swarup@ee.iitm.ac.in IIT Madras</p>	<p>Dr Shama Islam Senior Lecturer Electrical Engineering shama.i@deakin.edu.au Deakin University</p>	Optimal Energy Management and Pricing Strategies for Microgrids Enabled by Data Analytics and Machine Learning
3	<p>Dr. Nithin Muralidharan Assistant Professor Chemical Engineering muralidharan@iitm.ac.in IIT Madras</p>	<p>Dr. Mega Kar Alfred Deakin Postdoctoral Research Fellow Institute for Frontier Materials (IFM) m.kar@deakin.edu.au Deakin University</p>	“Next-Generation Lithium Batteries Enabled by Novel Ni-Rich, Co-Free Cathodes and low-cost and safe Fluorine-free Electrolytes”
4	<p>Dr. Swati Sudhakar Assistant Professor Applied Mechanics & Biomedical Engineering</p>	<p>Dr. Roey Elnathan Senior Lecturer in Biomedicine & ARC Future Fellow</p>	“Design and delivery of Protein origami nanocages using electroactive nanoinjection platform for targeted cancer therapy”

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