

AUT'S SCHOOL OF ENGINEERING, COMPUTER
AND MATHEMATICAL SCIENCES

APPLYING RESEARCH AND TECHNOLOGY FOR GOOD

Ground Floor
WZ Building
6 Saint Paul Street
AUT City campus

AUT

TE WĀNANGA ARONUI
O TĀMAKI MAKĀU RAU

TUESDAY 1 SEPTEMBER 2026

9:00AM	GUESTS WELCOME TO ARRIVE
9:15AM	EARLY-CAREER RESEARCHER PRESENTATIONS
10:20AM	OVERVIEW OF RESEARCH SHOWCASES
10:25AM	MORNING TEA + SHOWCASE VISITS
11:00AM	SENIOR RESEARCHER PRESENTATIONS
12:05PM	LUNCH + SHOWCASE VISITS
1:20PM	ECMS EXTERNAL RESEARCH ENGAGEMENTS
1:35PM	WINNERS ANNOUNCEMENT AND PRIZE GIVING
1:45PM	EVENT WRAPS UP

ECMS RESEARCH CENTRES:

Mathematical Modelling and Analytics Research Centre (MMARC)

Artificial Intelligence Research Centre (AIRC)

Computer and Information Sciences Research Centre (CISRC)

Intelligent Systems and Sustainable Energy Research Centre (ISSE)

Smart Systems, Materials, and Manufacturing Research Centre (S2M2)

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EARLY-CAREER RESEARCHER PRESENTATIONS:

- 9:15–9:28AM** **Lateralized Machine Learning for Interpretable and eXplainable AI**
Dr. Abubakar Siddique (CISRC)
- 9:28–9:41AM** **What Can We Learn from a Night of Sleep? AI-Based Joint Sleep Staging and OSA Severity Assessment**
Dr. Anuradha Singh (AIRC)
- 9:41–9:54AM** **A Dynamical Systems Approach to Diabetes: Linking Glucose–Insulin Regulation, β -Cell Dynamics, Vascular Health, and Stroke Risk**
Dr. Parul Tiwari (MMARC)
- 9:54–10:07AM** **Grid-forming Inverter for Small-scale Solar PV System**
Dr. Zoey Zhou (ISSE)
- 10:07–10:20AM** **Unmanned Underwater Vehicles (UUV) and Offshore Aquaculture**
Dr. Thein Than Tun (S2M2)
- 10:20–10:25AM** **Overview of Research Showcases**
Professor Boon-Chong Seet (Associate Head of School-Research)
- 10:25–11:00AM** **RESEARCH SHOWCASE and MORNING TEA**
Guests are invited to the showcase area WZ Level 1

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SENIOR RESEARCHER PRESENTATIONS:

- 11:00–11:13AM Engineering the Future: Smart Systems, Materials, and Advanced Manufacturing at AUT**
Professor Sarat Singamneni (S2M2)
- 11:13–11:26AM Research on Vehicle-to-Grid (V2G): Challenges and Futures**
Professor Peter Chong (ISSE)
- 11:26–11:39AM Mathematical Modelling, Data, and Analytics: Research Overview**
Dr. Wenjun Zhang (MMARC)
- 11:39–11:52AM Applications of AI in Bioacoustics**
Assoc. Professor Mahsa McCauley & Dr. Akbar Ghobakhlou (AIRC)
- 11:52–12:05PM Robotics & Vision: From Deep Learning to Autonomous Systems**
Assoc. Professor Wei Qi Yan (CISRC)
- 12:05–13:20PM RESEARCH SHOWCASE and LUNCH**
Guests are invited to the showcase area WZ Level 1
- 13:20–13:35AM ECMS EXTERNAL RESEARCH ENGAGEMENTS**
Overview and updates by Professor William Wong (Associate Head of School-External Engagement)
- 13:35–13:45AM WINNERS ANNOUNCEMENT AND PRIZE GIVING**
Top three audience responses

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PHYSICAL SHOWCASES:

Modelling Disease Progression and Analysis Of Work-Family Balance

Dilmi Ekanayake, Doris Iso, Dr. Parul Tiwari (MMARC)
Mathematical Modelling and Analytics Research Centre (MMARC)

NeuCube: Brain-Inspired AI System For Modelling Spatio-Temporal Data

Nida Shahab, Zhaoxin (Damon) Wang, Assoc. Professor Maryam Doborjeh (AIRC)
Artificial Intelligence Research Centre (AIRC)

BrainWISE: Wearable Platform For Monitoring Neurodegenerative Disorders

Victoria Kvasniak, Sruthy Krishna, Assoc. Professor Farhaan Mirza (CISRC),
Dr. Gautam Anand (IBTec)
Computer and Information Sciences Research Centre (CISRC)

Wireless Power Transfer Systems Integrating Renewable Energy Sources and Supercapacitors

Zhiyi Cheng, Zhixing Liu, Dr. Sadeesh Silva (ISSE)
Intelligent Systems and Sustainable Energy Research Centre (ISSE)

Additive Manufacturing, Unmanned Underwater Vehicles, and More.

Dr. Yifan Lv, Dr. Thein Than Tun, Dr. Malaya Behera (S2M2)
Smart Systems, Materials, and Manufacturing Research Centre (S2M2)

ECMS Research Day's
Audience response contest

