

## 2024 Completions - Faculty of Engineering

### **Dr. Mojtaba Ghermezcheshmeh**

(Specialisation: Electrical engineering) (Conferred: 11-Jan-2024)

Novel Time Division Duplex Schemes

### **Youssef Mamdouh Mohamed Helmy Shalaby**

(Specialisation: Civil engineering) (Conferred: 11-Jan-2024)

Rainfall sensing through image processing for improving spatial-temporal rainfall maps in urban areas

### **Dr. Ethan Samuel Grooby**

(Specialisation: Biomedical engineering) (Conferred: 23-Jan-2024)

Accessible Audio-Visual System for Neonatal Health Monitoring

### **Dr. Sudip Kundu**

(Specialisation: Mechanical engineering) (Conferred: 23-Jan-2024)

Durability and Damage Tolerance Assessment of Additively Manufactured (AM) Parts and AM Repairs

### **Dr. Asif Ahmed**

(Specialisation: Mechanical engineering) (Conferred: 24-Jan-2024)

Development of advanced digital holographic microscopy for studying microscale and biological cell flows

### **Dr. Aakash Chhabra**

(Specialisation: Civil engineering) (Conferred: 24-Jan-2024)

Fusing high-resolution SAR and optical time-series for monitoring post-natural disaster

### **Dr. Kai Dean Kang**

(Specialisation: Chemical engineering) (Conferred: 24-Jan-2024)

Development of Electronic Waste (e-waste) Management and Coarse PCB-Particles Based Processing Techniques in Developing Countries

### **Dr. Thanh Vinh Le**

(Specialisation: Civil engineering) (Conferred: 24-Jan-2024)

Fatigue damage prediction of pavement materials: from lab scale to field predictions

### **Dr. Xuefeng Li**

(Specialisation: Chemical engineering) (Conferred: 24-Jan-2024)

Structure Engineering of Chromatograph Membranes for Improved Protein Separation

### **Dr. Xinyu Liu**

(Specialisation: Chemical engineering) (Conferred: 24-Jan-2024)

The Flow and Segregation of Cement Clinker Particles in A Mill Feeding Hopper: Experiment and FEM Modelling

### **Dr. Sabrina Meikle**

(Specialisation: Biomedical engineering) (Conferred: 24-Jan-2024)

Strategic stimulation for sight: Current steering and multi-electrode approaches for improving cortical visual prostheses

### **Dr. Zhoufeng Shi**

(Specialisation: Civil engineering) (Conferred: 24-Jan-2024)

Development of self-sensing cementitious composites using nano-carbon black particles

**Dr. Shulei Zhang**

(Specialisation: Materials engineering) (Conferred: 24-Jan-2024)

Microelectrode-based studies of interfacial processes related to aqueous corrosion

**Dr. Xudong Zhou**

(Specialisation: Biomedical engineering) (Conferred: 24-Jan-2024)

Experimental and numerical Study on Particle Deposition in the Realistic Respiratory Tract Model

**Dr. Hamed Ashrafi**

(Specialisation: Structural engineering) (Conferred: 07-Feb-2024)

Development of an innovative lightweight high strength ground support system

**Dr. Fatima Azhar**

(Specialisation: Water and sanitary engineering) (Conferred: 07-Feb-2024)

Assessing Vehicle Stability in Flood Water through Smoothed Particle Hydrodynamics

**Dr. Guodong Ma**

(Specialisation: Geotechnical engineering) (Conferred: 07-Feb-2024)

Development of a fully coupled hydro-mechanical multi-phase multi-physics SPH framework to model soil internal erosion

**Dr. Ishara Chaminda Kariyawasam Paranawithana**

(Specialisation: Biomedical engineering) (Conferred: 07-Feb-2024)

Objective Measures of Functional Connectivity to Investigate Language Development in Infants

**Dr. Cynthia Richard**

(Specialisation: Mechanical engineering) (Conferred: 07-Feb-2024)

Acoustofluidic Technologies for Single Cell Analysis

**Dr. Marzie Ghorbani**

(Specialisation: Materials engineering) (Conferred: 15-Feb-2024)

Accelerated computational discovery and design of novel magnesium alloys by machine learning

**Dr. Mohammed I. I. Alkhatib**

(Specialisation: Civil engineering) (Conferred: 21-Feb-2024)

Acoustic Rainfall Sensing for Mapping Spatial Variation of Rainfall Events

**Dr. Amelia**

(Specialisation: Chemical engineering) (Conferred: 21-Feb-2024)

Co-production of biodiesel and phytonutrients from palm-based second-generation feedstocks using a low-cost liquid lipase for improving biodiesel process economics and sustainability

**Dr. Mohammad Fazli**

(Specialisation: Mechanical engineering) (Conferred: 21-Feb-2024)

Fully-Resolved Modelling of Suspension Flows

**Dr. Edward Charles Henderson**

(Specialisation: Biomedical engineering) (Conferred: 21-Feb-2024)

Bio-nano studies of organosilica and immune cells in vitro and in vivo

**Dr. Muhammad Ikhwan Bin Jamaludin**

(Specialisation: Water and sanitary engineering) (Conferred: 21-Feb-2024)

Crowdsourced Data to Improve Rapid Flood Inundation Mapping and Current Flood Assessment Case Study  
Kuala Lumpur

**Dr. Brandon David Johns**

(Specialisation: Mechatronics engineering) (Conferred: 21-Feb-2024)

Crane Payload Localisation: Mid-Air Alignment of Curtain Wall Modules

**Dr. Ha Anh Nguyen**

(Specialisation: Transport engineering) (Conferred: 21-Feb-2024)

Exploring the Safety Performance of Bus Companies with/without Bus Vehicle Ownership

**Dr. Yohanathan P.Sivagnana Kumaran**

(Specialisation: Mechatronics engineering) (Conferred: 21-Feb-2024)

Online backlash identification and estimation of remaining useful life in the joints of high speed industrial robots

**Dr. Kaushik Roy**

(Specialisation: Computer engineering) (Conferred: 21-Feb-2024)

Lifelong Learning with Neural Network

**Dr. Lee Yu Wu**

(Specialisation: Biomedical engineering) (Conferred: 21-Feb-2024)

Adaptive Assistance for Parkinsonian Gait