

# Prof. Dr. Saim Memon

PhD, CEng, FHEA, MSc, BEng(Hons), PGC-TQFE, GTCS, MCMI, MIET, MIEEE, MInstP, IBPSA, APCBEES, MPEC

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### BIOGRAPHY



Saim is Deputy Head of School of Engineering at Arden University, Coventry, UK. Saim is Distinguished Professor of Renewable Energy Engineering at Zhejiang Ocean University, China, and Visiting Industrial Professor of Renewable Energy Engineering (Vacuum Insulation Panel-PV) at Jiangsu Sanyou Dior Energy-saving New Materials Co., Ltd, China. Saim is also the Visiting Academic at London South Bank University. Prior to this, Saim was Associate Professor in Renewable Energy Engineering at School of Computing and Engineering, University of Huddersfield, UK. Prior to this, Saim was the Head of Solar Thermal Vacuum Engineering Research Group, Senior lecturer in Electrical Engineering and Course Director of three MEng/BEng/HND courses with expertise of accreditation and validation of course curriculum and degree apprenticeship program at Division of Electrical and Electronic Engineering, School of Engineering, London South Bank University, London, UK.

Saim studied PhD in Mechanical, Electrical & Manufacturing Engineering as part of EPSRC Funded CALBRE Project (Loughborough University, UK), PGCert Teaching Qualification (University of Aberdeen, UK), MSc in Mechatronics (Staffordshire University, UK), BEng (Hons) in Electrical Engineering MUET. Saim is Chartered Engineer and a Fellow of Higher Education Academy and has Qualified Teacher Status by General Teaching Council for Scotland (GTCS).

Saim has multidisciplinary research expertise in Electrical Engineering, Mechanical and Renewable Energy Materials Engineering. His specific research experiences are on: energy-materials for vacuum-insulated-smart-windows to net Zero Energy Buildings; vacuum based photovoltaic solar thermal collector; applied semi-transparent photovoltaics and PDLC films; translucent vacuum insulation panel; renewable energy technologies; thermoelectric devices for energy harvesting applications with vacuum-insulation; smart-grid integration to electric-vehicles with fast charging battery mechanism and; harvesting the concentrated solar irradiations to useful electrical energy.

Saim published over 100 research articles in the form of journals, book-chapters, patent-provisional, conferences, book-editor, newsletter and magazines. Saim collaborated with at least 90+ international and national scholars across 40+ countries globally. Saim raised funding of £261,789 from H2020, Innovate-UK, The IET/IMechE Engineering-Education-Grant-Scheme EEGS, DAIWA-Anglo-Japanese, Royal Academy of Engineering participation and Newton-Fund participation grants. Saim currently leads international collaborations as part of Solar Thermal Vacuum Engineering Research Group. Saim has been invited and keynote speaker in numerous international conferences/workshops and presented research findings and developed collaboration with researchers in the UK, Japan, China, Egypt, Russia, Kyrgyzstan, South America, Kenya, Thailand, Malaysia, Australia, South Korea, South Africa, Belarus, Pakistan, Indonesia, Saudi Arabia, Iran, Italy, France, Algeria, India, USA, UAE, Hong Kong, Vietnam, Turkey, Taiwan, Portugal and Spain.

Saim is the founder and Editor-in-Chief of International Journal of Solar Thermal Vacuum Engineering with international collaboration of 14 countries worldwide. Saim is the International Review Board Member of the Russian Science Foundation and Expert Contributor at Vacuum Science World. Saim is a Review Editor of Frontiers in built Environment journal, Guest Editor at Sustainability and Energies of 3 Special Issues in (a) Renewable Energy and Advanced Smart Vacuum Insulations Technologies for Zero Energy Buildings (2019-2022), (b) Applied Solar Thermal Energy (2020-2022) and, (c) Sustainable Development of Solar Photovoltaic Islands' Decarbonization (2021-2022). Saim was also an Editor-in-Chief for the published book on Advanced Thermoelectric Materials for Energy Harvesting Applications, it attracted worldwide collaborations. Saim is a recognised reviewer of over 35 prestigious journals by Elsevier, Springer, IEEE, Taylor & Francis and MDPI publishers.

Saim taught 41 BEng/MSc modules and supervised over 39 PhD/MEng/MSc & BEng projects. Saim was nominated for Best Supervisor, Outstanding Lecturer and Research in Action Awards by Staff and Students for four consecutive years (2017, 2018, 2019 & 2020) at LSBU. Saim demonstrated and evidenced his excellent track record in Teaching and Supervision practices throughout his career. Saim developed and led a project that engaged local London Engineering students on Solar Car Challenge as part of the IET IMechE Engineering Education Grant Scheme. Saim also organised and chaired international and national conferences. Saim was the founder of DEEE Society at LSBU for students' academic-industrial engagement. Saim has outstanding volunteer contributions throughout his academic career as evidenced on his profile such as: he contributed to the society as elected vice-chairman of The IET Young Professionals; elected Executive Officer at Staffordshire University Students

Union; elected committee member of Postgrad Taught Students at NUS UK; elected vice-chair at Loughborough University Postgraduate Association; elected honorary secretary and committee member at Vacuum Group Institute of Physics; and many more volunteer roles he held and continue to serve our global academic societies.