



Professor Iqbal Mujtaba FREng

Professor of Computational Process Engineering, Associate Dean for Learning, Teaching & Quality, University of Bradford

Professor Iqbal Mujtaba is a world leader in batch distillation, wastewater treatment and desalination and has authored several textbooks and edited books. In 2010, he led the reintroduction of chemical engineering to the University of Bradford. Professor Mujtaba has developed process models for a range of processes that have delivered impact for many companies internationally, for example in oil separation, industrial scale desalination, fluid catalytic cracking, naphtha isomerisation, crude oil hydrotreating, along with chlorination reactor and process for titanium dioxide production which radically improved production and reduced CO₂ emissions. He has published over 370 technical papers and has supervised 43 PhD students to completion. Professor Mujtaba has delivered more than 75 invited lectures/plenaries/keynotes/seminars/short courses around the world. He has managed several research collaborations and consultancy projects with industries and academic institutions in the UK, Italy, Hungary, Denmark, Spain, Malaysia, Iraq, China, Libya, Qatar, Sudan, Egypt, India, Bangladesh, Pakistan, Bahrain, Algeria, Thailand, Jordan and Saudi Arabia.

Iqbal Mujtaba

Professor **Iqbal Mujtaba** is an academic and engineer who specializes in chemical engineering. He is currently serving as the associate dean at the University of Bradford.

As of March 2023, he has published over 390 technical papers in major engineering journals, with a focus on distillation, desalination, wastewater treatment, and refineries.

Career

Following his PhD, Mujtaba became a research fellow at Process Systems Engineering, Imperial College, London.^[1] He remained at Imperial College until 1994, when he joined the University of Bradford as a lecturer in Chemical Engineering.^[2]

In 2000, he became the secretary of IChemE Computer Aided Process Engineering Subject Group. He later held the position of chair at the subject group between 2015 and 2019. In 2001, he edited the book, Application of Neural Networks and Other Learning Technologies in Process Engineering.^[1] In 2004, he published "Batch Distillation - Design and Operation" with World Scientific on the subject of batch distillation.^[3] He edited several books, "Composite Materials Technology: Neural Network Applications (2009)",^[4] "The Water-Food-Energy Nexus: Processes, Technologies and Challenges (2017)",^[5] "Water Management: Social & Technological Perspectives (2018)".^[6] In 2020, he published "Wastewater Treatment by Reverse Osmosis Process",^[7] and then in 2022 published "Desalination Technology: Design and Operation".^[8]

Mujtaba works in an editorial capacity for numerous peer-reviewed and open access journals, including as an Associate Editor for South African Journal for Chemical Engineering,^[9] Editorial Board Member for Energies and Processes.

He recently became a fellow of both the Institution of Chemical Engineers and the Royal Academy of Engineering.^[10]

Mujtaba is a world leader in batch distillation. Much of Mujtaba's recent research has focused on three topic areas - water, energy and food.^{[11][5][4]}

References

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Education	<u>Bangladesh</u> <u>University of</u> <u>Engineering &</u> <u>Technology</u> <u>Imperial College</u> <u>London</u>
	Engineering career
Discipline	<u>Chemical Engineering</u>
Institutions	<u>University of Bradford</u>

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 6. Water Management: Social & Technological Perspectives, CRC press, 2018
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 10. Hebden, Kerry (September 26, 2022). "New RAEng Fellows includes three IChemE members" (<https://www.thechemicalengineer.com/news/new-raeng-fellows-includes-three-icHEME-members/>). *The Chemical Engineer*.
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