



## Khalid Bani-Melhem Research Associate Professor

Dr. Khalid Bani Melhem holds BSc and MSc degrees in Chemical Engineering from Jordan University of Science and Technology (JUST) in 1995 and 1998, respectively. In 2008, Dr. Bani Melhem received his Ph.D. in Civil and Environmental Engineering from Concordia University - Montreal - Canada. Dr. Bani Melhem's research interests focus on water and wastewater treatment processes using various physical, chemical, and biological methods. His research focuses on the use of electrochemical methods and the use of membrane separation processes. The topic of his master's degree was in water desalination using membrane distillation, as well as the subject of a doctoral thesis in the design of a wastewater treatment device using the combination of electrocoagulation technology with submerged membrane bioreactor technology. The scientific results of his doctorate degree were registered as a patent in 2010 in the United States of America. In August 2022, Dr. Bani Melhem joined the Water Technology Unit (WTU) at the Center for Advanced Materials (CAM) at Qatar University as a research associate professor, and before joining Qatar University, Dr. Bani Melhem worked at the Hashemite University in the Department of Water Management and Environment from 2012 to 2018 as an assistant professor and from 2018 to 2022 as an associate professor. Between September 2016 and September 2019, Dr. Bani Melhem served as the head of the department. Prior to joining the Hashemite University in 2012, he worked at the American University in Cairo (AUC) from February 2010 to August 2012 as a postdoctoral researcher on a project funded by King Abdullah University of Science and Technology (KAUST) in Saudi Arabia. Upon completion of his Ph.D degree, Dr. Bani Melhem also worked as a postdoctoral researcher at Concordia University from 2008 to 2010 where he completed his research on a Ph.D. project which was funded with more than C\$650,000 from the Canadian Research Council for the Natural Sciences and Engineering. In the field of publishing scientific research, Dr. Melhem has published more than 50 research papers in refereed international journals and conferences, as well as participated as an assistant editor in international scientific journals. On the industrial scale, Dr. Bani Melhem has excellent experience in chemical and environmental engineering applications as he worked as a Process Engineer and Quality Supervisor in the Arab Potash Company for more than 7 years. During his work in the company, he supervised the quality and environment management systems (ISO 9000 and ISO 14000), where he was the coordinator for the construction of these two systems in the company and participated in identifying all environmental aspects and assessing their impact on the environment.

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