

Water Production / Water Reuse Technologies

The **Masdar Institute of Science and Technology**, located in Abu Dhabi, U.A.E., is a private, not-for-profit, independent, graduate-level, research-driven institute developed with the support and cooperation of the Massachusetts Institute of Technology (MIT). Starting Fall 2009, the Institute will offer graduate degree programs in science and engineering disciplines with a focus on advanced energy and sustainable technologies (for more information, visit www.masdar.ac.ae and <http://web.mit.edu/mit-tdp/www/>). The **Water & Environment Program** at Masdar Institute has full-time open-rank (i.e., Full, Associate, or Assistant Professor) faculty positions in the specialty area of **advanced water production technologies**. Sub-areas of interest in this specialty include membrane-based desalination technologies (e.g., Brackish Water Reverse Osmosis [BWRO], Sea Water Reverse Osmosis [SWRO], Dual-Stage NanoFiltration [NF/NF], Forward Osmosis [FO], and hybrid thermal/membrane technologies such as Membrane Distillation [MD]), processes involving specialty water production for industry (i.e., production of UltraPure Water [UPW], microelectronics rinse water, or United States Pharmacopeia [USP] grade water) and water production/recovery from industrial and municipal wastewaters (e.g. RO/Deionization, ceramic membrane modules, external and submerged Membrane BioReactors [MBRs], fouling-resistant hydrophobic membrane modules), and advanced water treatment process design with the goal of zero liquid discharge (ZLD). Job responsibilities include developing and teaching graduate-level courses, supervising master's and doctoral students, developing an externally funded research program, and participating in the Institute's service and outreach activities. A PhD in Civil/Environmental Engineering, Chemical Engineering, Mechanical Engineering, or a related discipline is required for this position. Post-doctoral or industrial research experience is a plus. Application submittal information: Faculty candidates will be evaluated by the Masdar Institute and by the Technology and Development Program at MIT. Initial screening of applications will begin immediately and the positions will remain open until filled. Application materials should include applicant name and contact information, a curriculum vitae, an application letter describing the applicant's current position and how his/her experience matches the position requirements, and e-mail contact information for three references. Materials must be submitted electronically to: Dr. Marwan Khraisheh, Acting Provost and Co-Chair, Faculty Search Committee for Masdar Institute, Masdar Institute of Science and Technology, Abu Dhabi, United Arab Emirates (e-mail: mkhraisheh@mist.ac.ae). Electronic copies of all application materials should also be submitted to: Professor Fred Moavenzadeh, Co-Chair, Faculty Search Committee for Masdar Institute, Technology and Development Program Massachusetts Institute of Technology (e-mail: tdpmail@mit.edu).