

FARIS M. MUNSHI

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Career Profile

Assistant professor in Environmental Engineering at King Saud University lectured in water and wastewater treatment, industry and environment systems. Teaching environmental laboratory sessions related to water and wastewater analysis. Serving in several administrative programs within the civil engineering department.

AREAS OF INTEREST

- Academic Teaching
- Filtration processes
- Membrane bioreactors
- Advanced Oxidation Processes
- Environmental Management
- Anaerobic Treatment
- Forward osmosis membranes

PROFESSIONAL EXPERIENCE

- Member, Scientific Committee** Oct 1, 2019
THE TAREK AL-KASABI REWARD FOR EXCELLENCE IN CIVIL ENGINEERING IN SAUDI ARABIA
- Member, Department Development Committee** Sep 17, 2019
- Co-Chairman of the Department of Civil Engineering** Sep 1, 2019
CIVIL ENGINEERING DEPARTMENT, King Saud University, Riyadh, Saudi Arabia
- Vice president of the Saudi Student Club** 2017 – 2018
- Graduate Teaching Assistant** 2016 – 2018
CIVIL, ENVIRONMENTAL AND CONSTRUCTION ENGINEERING DEPARTMENT, University of Central Florida, Orlando, United States of America
Assisting in environmental engineering courses, including biological process control and environmental biotechnology.
- Guest speaker** Nov 15, 2017
CIVIL, ENVIRONMENTAL AND CONSTRUCTION ENGINEERING DEPARTMENT, University of Central Florida, Orlando, United States of America
Guest speaker presenting membrane technology and application in water and wastewater treatment.
- Teach-In Speaker** Nov 15, 2017
CASTLE CREEK ELEMENTARY, ADDITIONS SCHOOL VOLUNTEERS PROGRAM, ORLANDO, FLORIDA.
Introducing students to environmental engineering as a career and educational opportunities.
- Graduate Research Assistant** 2014 - 2019
CIVIL, ENVIRONMENTAL AND CONSTRUCTION ENGINEERING DEPARTMENT, University of Central Florida, Orlando, United States of America
Under the mentorship of Dr. Woo Hyoung Lee, Researching algae dewatering using forward osmosis membranes for the production of biofuel.
- Member, Quality and Accreditation Committee** Spring 2014
CIVIL ENGINEERING DEPARTMENT, King Saud University, Riyadh, Saudi Arabia
Preparing the course file documents for the National Commission for Academic Accreditation and Assessment, furthermore, organizing arrangements for the NCAA inspection team during their evaluation period.
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Member, Food and Water Inspection Committee

2011 – 2013

Correlation with Saudi FDA, Riyadh Region

A team of ten agencies inspecting water and food industries, monitoring processes, reviewing laboratory reports, sampling, and testing byproducts and wastes.

Member, Summer, and Collaborative Training Committee

2011 – 2013

COLLEGE OF ENGINEERING, King Saud University, Riyadh, Saudi Arabia

Civil engineering department representative. Duties were creating open channels with the governmental and private sectors with regards to establishing training opportunities and ensuring standards were met.

Coordinator, Practical Training Committee

2010 – 2013

CIVIL ENGINEERING DEPARTMENT, King Saud University, Riyadh, Saudi Arabia

Coordinator of the committee, with duties of establishing relations with training partners, distributing the training opportunities among students, providing support services for trainees.

Member, General activities and Media Committee

2009 – 2013

CIVIL ENGINEERING DEPARTMENT, King Saud University, Riyadh, Saudi Arabia

Organizing workshops and lectures in the department and maintaining communication with internal and external media.

Lecturer, Environmental Engineering Group

Since 2009

CIVIL ENGINEERING DEPARTMENT, King Saud University, Riyadh, Saudi Arabia

Teaching water and wastewater treatment; industry and environment systems; and water and wastewater laboratory courses. Furthermore, giving tutorials on the subject of water supply and drainage systems.

Teaching Assistant

2006

CIVIL ENGINEERING DEPARTMENT, King Saud University, Riyadh, Saudi Arabia

Assisting in tutorials and laboratory in the environmental engineering course group, including water and wastewater treatment, and water supply and drainage systems.

Civil Engineer

2006

LAHJAN GROUP, Makkah, Saudi Arabia

Supervising construction projects. Also, in association with the municipal of Makkah and SBG, I served in supervising the maintenance of the underground drainage and service tunnels in the city center.

Training Civil Engineer

Summer 2005

SAUDI BINLADIN GROUP (SBG) - PBAD, Makkah, Saudi Arabia

Civil engineering training at The King Abdul Aziz Endowment Project, under an extensive program in steel, wood, concrete, and surveying works.

AutoCAD Mapping

2005

MINISTRY OF PILGRIMAGE, Makkah, Saudi Arabia

Contributing in a consulting project by editing maps of "Mina" area.

Training Civil Engineer

Summer 2004

AL-MARSAM OFFICE, Makkah, Saudi Arabia

Following the supervision of a seven-story reinforced concrete building project.

Study participant

2003

THE CUSTODIAN OF THE TWO HOLY MOSQUES INSTITUTE OF HAJJ RESEARCH, Makkah, Saudi Arabia

Participating in the study of the development of the geographic information system for pilgrims housing in Makkah.

HONORS AND AWARDS

- Honorable mention at the 2016 sustainable energy awards for the work done under the title “Algae Biofuel Osmosis Dewatering (ABODE) project,” P3 design competition on the 16th day of April 2016, at Washington. D.C.
- Funding: U.S. Environmental Protection Agency, P3 Project (SU836132), 2016
- Ph.D. scholarship grant, King Saud University, Saudi Arabia (4/52/24793) 2014-2019

CONFERENCE PAPERS AND PRESENTATIONS

- “Impact of Reverse Salt Flux (RSF) and Applied Electrical Field on Micro-algae in a Forward Osmosis (FO) Harvesting System”, Association of Environmental Engineering and Science Professors (AEESP), Arizona State University, Tempe, Arizona, May 14-16, 2019.
- “Forward Osmosis for Algae Dewatering and Electrical Field-driven Membrane Fouling Mitigation”, 3MT UCF’s first - Three Minute Thesis, Live Oak Center, UCF, Orlando, Florida, March 27, 2019.
- Graduate Research Forum 2019, Pegasus Ballroom- UCF Student Union, Orlando, Florida, April 5, 2019.
- Materials Innovation for Sustainable Agriculture 2018 (MISA2018), Live Oak Ballroom, Orlando, Florida, October 31, 2018.
- Graduate Research Forum 2018, Pegasus Ballroom- UCF Student Union, Orlando, Florida, April 3, 2018.
- Association of Environmental Engineering and Science Professor’s 2018 Distinguished Lecturer, University of Central Florida, Live Oak Event Center, Orlando, Florida, March 23, 2018.
- “Fouling Control of a Forward Osmosis (FO) Algae Dewatering System using an Electric Field” Membrane Technology Conference and Exposition 2018 (MTC18) in West Palm Beach, Florida, March 12-16, 2018.
- Graduate Research Forum 2017, Pegasus Ballroom- UCF Student Union, Orlando, Florida, April 4, 2017.
- “Algae Dewatering with Different Draw Solutions and Cross Flow Velocities Using a Forward Osmosis (FO) Flat Sheet Membrane” at the 2017 Membrane Technology Conference and Exposition (MTC17) in Long Beach, California, February 13-17, 2017.
- “The Effect of Cross Flow and Draw Solutions on the Algae Dewatering using Forward Osmosis” Florida Section AWWA Fall Conference 2016, 90th-anniversary gala, Orlando, Florida, Nov 27 - Dec 1, 2016.

REFEREED JOURNAL PUBLICATIONS

Munshi, F.M., Church, J., McLean R., Maier N., Sadmani A., Duranceau S. J., and Lee, W.H., Dewatering Algae using an Aquaporin-based Polyethersulfone Forward Osmosis Membrane, *separation and purification technology*

MEMBERSHIPS

- Member in American Water Works Association (AWWA) – Since 2015
- Member in American Society of Quality (ASQ) - Since 2017

EDUCATION & CERTIFICATIONS

PhD in Environmental Engineering	May 2, 2019
CECE, University of Central Florida, Orlando, FL, USA	
Lean Six-sigma Yellow belt	April 27, 2017
The 2nd Central Florida Quality Conference, ASQ, University of Central Florida, Orlando, FL, USA	
Advanced English Courses	April 2013 - Dec 2013
ESL, Rice University, Houston, TX, USA	
Certificates in Effective Teaching Skills, Evaluation of Student Education Outcomes and Course Building and Designing	2010
Deanship of Skill Development, KSU, Riyadh, Saudi Arabia	
Master of Engineering Science in Environmental Engineering	2007 – 2009
The University of New South Wales, Sydney, Australia	
Bachelor Degree in Civil Engineering (B.Sc.)	2001 – 2006
UMM AL-QURA UNIVERSITY, Makkah, Saudi Arabia	