

ABDULLAH AL BALUSHI

Graduate Research Assistant
Department of Chemical and Biomolecular Engineering
University of Nebraska-Lincoln

Mailing Address:
207 Othmer Hall
Lincoln, NE, 68588

Phone: +1(402)541-2986
Email: abdula.mohad@gmail.com

EDUCATION

Master of Science in Chemical Engineering August 2019 (expected)
University of Nebraska-Lincoln, Lincoln, NE
Advisor: Siamak Nejati

Bachelor of Science in Chemical Engineering December 2017
University of Nebraska-Lincoln, Lincoln, NE
GPA: 3.86/4.00

HONORS AND AWARDS

Young Omani Water Researcher Award 2018
Awarded by the Middle East Desalination Research Center (MEDRC), Muscat, Oman

Certificate of High Scholarship 2015, 2016
Awarded by the University of Nebraska-Lincoln, Lincoln, NE

High Academic Achievement Award 2016
Awarded by the Department of Chemical and Biomolecular Engineering at the University of Nebraska-Lincoln, Lincoln, NE

Full government scholarship for bachelor's degree 2012
Granted by the Ministry of Higher Education of Oman, Muscat, Oman

EXPERIENCES

Research Assistant, University of Nebraska-Lincoln
Graduate (January 2018-present); Undergraduate (January 2017-December 2017)
Advisor: Siamak Nejati

- Project: Solar-Assisted Desalination Using Membrane Distillation
- Duties: Thermodynamic analysis, simulation, fabrication of novel functional membranes (hollow fibers and flat-sheet) for membrane distillation. Developing Standard of Operation Procedures for experiment setups and instruments. Arduino projects for data acquisition and experiment setups.

Teaching Assistant, University of Nebraska-Lincoln January 2017-May 2017
Professor: Hunter Flodman

- Course: Chemical Engineering Lab (for third year undergraduate students)
- Duties: Guide students through their experiments. Review pre-lab questions. Ensure that experiments are conducted safely and correctly. Answer questions regarding experiments, both in person and via email. Attend presentations, provide feedback, and challenge students understanding of the concepts of the experiments.

PUBLICATIONS

Journal Papers

(Published)

M. Mohammadi Ghaleni, **Abdullah Al Balushi**, Shayan Kaviani, Elham Tavakoli, Mona Bavarian, and Siamak Nejati, "Fabrication of Janus Membranes for Desalination of Oil-Contaminated Saline Water", ACS Applied Materials & Interfaces, 2018.

Conference Papers

(Peer-Reviewed)

M. Mohammadi Ghaleni, **Abdullah Al Balushi**, Mona Bavarian, and Siamak Nejati, "Modeling and Design of Solar-Assisted High-Performance Direct Contact Membrane Distillation System", Computer-Aided Chemical Engineering, 2018.

MENTORSHIP/VOLUNTEERING

NanoDays (one-day event, Nebraska Center of Materials and Nanoscience, 2018 and 2019)
Presented an experiment for children at Gateway Mall in Lincoln, NE

Lindsey Jarema (undergraduate student, University of Nebraska-Lincoln, 2018)
Project: Synthesis of rough TiO₂ surface on titanium foil

Lincoln Bike Kitchen (total of 20 hours of service, 2015)
Provided mechanical assistance to assemble and repair bicycles

Omaha Food Bank, Beveridge Middle School (total of 10 hours of service, 2012)
General Service

LANGUAGES

English: Professional proficiency; **Arabic:** Native

SKILLS

Lab scale experiments: Membrane fabrication and functionalization, membrane testing, hydrothermal reactions

Materials Characterization: Scanning Electron Microscope (SEM), X-Ray Diffraction (XRD)

Programming and Simulation Software: MATLAB, Mathcad, ASPEN

PROFESSIONAL CERTIFICATES

Chemical Process Safety in Chemical Process Industries, American Institute of Chemical Engineers, Safety and Chemical Engineering Education, 2017

Basic Radiation Safety for X-Ray Users, University of Nebraska-Lincoln, Radiation Safety Office, 2017

REFERENCES

Dr. Siamak Nejati, Assistant Professor
Department of Chemical and Biomolecular Engineering
University of Nebraska-Lincoln
207 Othmer Hall
Lincoln, NE 68588
Phone: +1 (402) 472-3232
Email: snejati2@unl.edu

Dr. Hossein Nouredini, Department Chair, Professor
Department of Chemical and Biomolecular Engineering
University of Nebraska-Lincoln
207 Othmer Hall
Lincoln, NE 68588
Phone: +1 (402) 472-2751
Email: hnouredini1@unl.edu

Dr. Hunter Flodman, Assistant Professor of Practice
Department of Chemical and Biomolecular Engineering
University of Nebraska-Lincoln
207 Othmer Hall
Lincoln, NE 68588
Phone: +1 (402) 472-1128
Email: hunter.flodman@unl.edu