

ABDULLAH AL BALUSHI

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

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EDUCATION

Master of Science in Chemical Engineering University of Nebraska-Lincoln, Lincoln, NE Advisor: Siamak Nejati	May 2019 (expected)
Bachelor of Science in Chemical Engineering University of Nebraska-Lincoln, Lincoln, NE GPA: 3.84/4.00	December 2017

HONORS AND AWARDS

Young Omani Water Researcher Award Awarded by the Middle East Desalination Research Center (MEDRC), Muscat, Oman	2018
Certificate of High Scholarship Awarded by the University of Nebraska-Lincoln, Lincoln, NE	2015, 2016
High Academic Achievement Award Awarded by the Department of Chemical and Biomolecular Engineering at the University of Nebraska-Lincoln, Lincoln, NE	2016
Full government scholarship for bachelors degree Granted by the Ministry of Higher Education of Oman, Muscat, Oman	2012

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.

EXPERIENCES, CONTINUED

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

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

Lindsey Jarema (undergraduate student, University of Nebraska-Lincoln, 2018)

Project: Synthesis of rough TiO₂ surface in a Titanium foil

NanoDays (one-day event, Nebraska Center of Materials and Nanoscience, 2018)

Presented a heat transfer experiment for children at Gateway Mall in Lincoln, NE

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

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
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