








Abdullahi Hussein Mohamed

Chemical Engineer

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Contact

-  Bolu, Turkey
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-  abdallahussein713@gmail.com
-  LinkedIn Profile
-  Project Portfolio

Education

B.Sc. Chemical Engineering
Bolu Abant İzzet Baysal
University

Professional Summary

Detail-oriented and motivated 4th-year Chemical Engineering student with a strong academic record (3.35 GPA). Seeking to leverage a solid foundation in chemical process design, data analysis, and problem-solving to contribute to a challenging entry-level engineering role. Eager to apply theoretical knowledge and practical skills in process design, optimization, and simulation to real-world industrial challenges.

Key Projects

Syngas Plant Design and Optimization

Expected Graduation: June 2026
Expected GPA: 3.5 / 4.00

Skills

Core Engineering

Process Design

Simulation

Optimization

Reactor/HE Design

Software & Simulation

MATLAB

Simulink

Python

HTML

OpenFOAM

DWSIM

Blender

Excel

Visio

Languages

Somali: Native

English: Fluent

Turkish: Advanced

Arabic: Advanced

- Led the conceptual design of a syngas production facility, focusing on process efficiency and economic viability.
- Utilized simulation software to model reaction kinetics and optimize operating conditions for maximum yield.
- Conducted a techno-economic analysis to evaluate the project's profitability and payback period.
- Link: <https://tinyurl.com/syngasproject>

Biopolymer Synthesis from PLA with Added Essential Oils

- Investigated novel methods for synthesizing biodegradable polymers from Polylactic Acid (PLA).
- Experimented with the incorporation of essential oils to enhance material properties and add antimicrobial functionality.
- Characterized synthesized materials using various analytical techniques to assess performance.
- Link: <https://tinyurl.com/biofilmsynthesis>

Fluid Mechanics Project: Pipeline Design and Optimization

- Designed a fluid transportation pipeline system, performing hydraulic calculations to determine pipe sizing and pump requirements.
- Optimized the pipeline layout to minimize pressure drop and energy consumption using fluid dynamics principles.
- Analyzed system performance under various flow conditions to ensure operational reliability and safety.

Certifications

- Introduction to Process Safety and Risk Analysis
University of California, Davis, USA
July 2025
[Certificate Link](#)
- Chemical Hazards: Toxicology & Reactivity
University of California, Davis, USA
July 2025
[Certificate Link](#)
- Certificate in Advanced Process Simulation
- Safety Training Certification

References

Dr. Musa BÜYÜKADA:

Phone:

0374 254 10 00 / 4869

Email:

musabuyukada@ibu.edu.tr

Dr. Özlem ATEŞ DURU:

Professional Experience

Upcoming Intern

Center for Nuclear Radiation Detectors Application and Research | Bolu, Turkey

August 2025

- Selected for a competitive internship to support ongoing research in nuclear detection technologies.
- Will assist research staff with experimental setup, data collection, and analysis.
- Tasked with applying engineering principles to contribute to the development and application of radiation detectors.

Work Experience

Dispatcher

Eagle Transport and Logistics, LLC, USA

June 2021 – May 2023

- Managed logistics and dispatching for a fleet of trucks ensuring timely deliveries.
- Coordinated with drivers and customers to optimize route efficiency.
- Monitored shipment status and resolved any issues promptly.

Translator & Interpreter

Ankara Sehir Hastanesi & Other Private Clinics, Turkey

Jan 2020 – Present

Phone:
0374 254 10 00 / 5869
Email:
ozlem.atesduru@ibu.edu.tr

- Providing translation and interpretation services between English, Turkish, Arabic, and Somali.
- Assisting patients in medical appointments, ensuring clear communication.

Additional Roles

- Independent Tourist Guide across Turkey (2018 - Present).
- Active community volunteer focused on cultural exchange and education.

Memberships

- AICHE Membership
ID: 00990597429
- Member, İBÜ Chemical Engineering Students Club
- Member, Somali Engineers Association (SEA)