Muhammad Furqan Khan Chemical Engineer

imes	furqanfayaz2000@gmail.com	C	03402844900
9	House no: 18 Shah Rasool Colony, Clifton Karachi		2001/01/09
	Pakistan		42301-9066394-7
0	Single	:	Male

Profile

To obtain a Trainee Engineer position in a dynamic and challenging environment where I can utilize my knowledge of Chemical Engineering and contribute to the company's success while gaining valuable experience and growth opportunities.

Education

2019/08 – 2023/05 Swabi, KPK, Pakistan	BS Chemical Engineerin Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) Result: 3.3/4
2017 – 2019 Karachi, Pakistan	F.S.C Pre-Engineering DJ Sindh Government College Karachi Result: 921/1100
2015 – 2017 Karachi, Pakistan	S.S.C Science Group Iqra Huffaz Boys Secondary School Result: 776/900 Hifz-e-Quran: 98/100

Professional Experience

2022/07 - 2022/08 Karashi, Bakistan	Oil and Gas Regulatory Authority (OGRA) Intern
Karachi, Pakistan	 Intern During my internship at the Oil and Gas Regulatory Authority, I had the opportunity to work on both Consumer Complaints and Oil Enforcement divisions, obtaining important insight into the oil and gas industry's regulatory structure. I actively participated in the resolution of consumer complaints and disputes in the Consumer Complaints area. This entailed examining and investigating complaints thoroughly, conducting research, and talking with stakeholders to achieve prompt and satisfactory resolutions. I worked in the Oil Enforcement Division, where I monitored and enforced compliance. Inspections, data analysis, and collaboration with the enforcement team were all part of the job.
2021/08 – 2021/09 Rawalpindi, Pakistan	Attock Refinery Limited (ARL) Intern I got the opportunity to work in the Howe Baker and Isomerization units during my internship at Attoc Refinery Limited, obtaining significant hands-on knowledge in the oil refining process. I actively contributed to different parts of refinery operations and optimization while working directly with top engineers.

Final Year Project Design

Adsorptive De-sulfurization of Crude Oil Using Modified Green Adsorbents

I actively participated in the research and development of an innovative solution for desulfurizing crude oil as part of my final-year project.

The study aimed to improve standard adsorbents such as activated carbon by adding additions such as TiO2 nanoparticles. We attempted to achieve maximal sulfur compound removal efficiency while considering cost-effectiveness and operational feasibility by optimizing the adsorbent composition, researching kinetics, and finding the appropriate dosage. This project not only demonstrated

my technical skills in experimental design and analysis but also demonstrated my commitment to ecologically friendly and sustainable solutions in the petroleum business.

The results demonstrate the effectiveness of removing sulfur compounds from fuel oils has increased to 99.82%.

Core Competencies

- Occupational Health and Safety
- Fluid Mechanics
- Chemical Process Industries
- Chemical Engineering Thermodynamics
- Heat and Mass Transfer
- Separation Processes
- Reaction Kinetics and Reactor Designing
- Instrumentation and Process Control
- Transport Phenomena
- Petroleum Refining Engineering
- Process Modelling and Simulation
- Biochemical Engineering

Academic Projects

Heat Exchanging Equipment Modelling

Sizing different kinds of heat exchangers with modeling.

Fluid-Fluid Separation

Designing absorption and strippers with different techniques.

Dynamic Pumps and Piping systems

Sizing pumps and studying the losses in piping and fittings.

Reactor Designing

Designing a suitable reactor of such chemicals that are not produced by Pakistan and paying huge amounts to export.

Transport Phenomena

Analyze and simulate different structures with respect to the transport of fluid, energy and mass using Ansys.

Skills Aspen Hysys ••••• Microsoft Office ••••• Ansys •••••

Awards

Been on Dean's honor list

General Secretary and formal representative at GIKI of:

- 1. ASM International
- 2. AIST
- 3. ACerS
- 4. TMS

Executive member (Director Support) of AIChE GIKI Chapter

Chief Minister Sindh scholarship rewarded

Interests							
• Novel reading	• Islamic studies	• Freelancing					
Languages							
• English	• Urdu	• Pashto					
References							
Dr. Javaid Khan Rabbani,	Head of the Department of Chemical Engin	eering,					

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) drjrabbani@giki.edu.pk, +92 321 4346933

Dr. Hammad Amjad Khan, Associate Professor, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) hammad@giki.edu.pk, +92 333 6094881

Dr. Sajjad, Associate Professor, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) sajjad.hussain@giki.edu.pk

Mr. Khalil Ahmed Sheikh, *JED*, Oil and Gas Regulatory Authority (OGRA) ksheikh@ogra.org.pk, +92 300 3013228