

ABDUL QADEER KHAN

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PROFILE SUMMARY

- Geotechnical Engineer with **Experience** in the **Analysis and Design** of **Shoring** systems, **Foundations**, and **Ground Improvement Techniques**.
- **Ranked 1st** in GIKI's 2023 Master's entrance exam and awarded Graduate Assistantship.

EDUCATION

- **Master of Science** in Geotechnical Engineering (**CGPA: 3.79/4.00**)
Ghulam Ishaq Khan Institute of Science and Technology **2023-2025**
- **Bachelor of Science** in Civil Engineering (**CGPA: 3.29/4.00**)
Ghulam Ishaq Khan Institute of Science and Technology **2019-2023**

TECHNICAL SKILLS

- **Geotechnical Design Software:** PLAXIS 2D/3D, GeoStudio, DeepEx FND, AllPile, Lpile.
- **Dewatering:** Visual ModFlow Flex
- **Structural Analysis Software:** SAP 2000, ACECOME GEAR.
- **Coding:** MATLAB, Python, Machine Learning.

WORK EXPERIENCE

Geotechnical Design Engineer

Ammico Int'l Contracting Co. Ltd. (Qatar)

Current

The scope of the work includes:

- Deep foundation (PPLT and WPLT)
- Shoring works (Sheet pile, Contiguous pile, and Secant pile)
- Dewatering (Steady state and Transient analysis)
- Ground Improvements (Stone column or Vibro-compaction)
- Liquefaction analysis
- Structural design (Piles, Waller beam, Struts, and Capping beam)

Commercial Testing Engineer

Ghulam Ishaq Khan Institute of Science and Technology (Pakistan)

2023-2025

The scope of the work included:

- Soil Testing as per ASTM Standards.
- Foundation Design and Recommendations
- Geotechnical Investigation Report

PROFESSIONAL CERTIFICATES

- Supervised Machine Learning: Regression and Classification (Stanford Online)
- PLAXIS 2D/3D
- Shaft and Dewatering, Bently License
- Advanced Learning Algorithms (Stanford Online).

ENGLISH PROFICIENCY

- Speaking 6.0, Listening 6.0, Writing 6.0, Reading 7.0
- Overall: 6.5

ADDITIONAL EXPERIENCE

- **Vice President**
Graduate Student Society (GSS) 2024-2025
- **Event Coordinator**
Institute of Civil Engineering (ICE) 2022-2023

AWARDS & HONOR

- **Graduate Assistantship**
Ghulam Ishaq Khan Institute of Science and Technology 2023-2025
- **Head of Coordination (Graduate Students)**
International Conference on Emerging Technology (ICET24') 2024
- **Chief Minister Scholarship (KPK)**
Government of Khyber Pakhtunkhwa 2019-2023
- **5x Dean's Honor List (DHL)**
Department of Civil Engineering (GIKI) 2019-2023

PROFESSIONAL TRAINING

- **The Disaster Resilient Structures** 2024
Two-Week Training Course on Disaster Resilient Structures, jointly organized by the Russian Association of Earthquake Engineering, NED University, and OIC-COMSTECH.

MASTER THESIS

Experimental and Numerical Investigation on the Constitutive Behavior of Fiber Reinforced Submerged Soil

- Investigated the mechanical behavior (Stress Strain, Dilatancy / Contractancy, PWP etc.) of unreinforced dredged / soil.
- Investigate the Effect Of Fibers On The Mechanical Behavior of submerged soil under both short- and long-term behavior.
- Validated the Modified Cam Clay model for the behavior of submerged and fiber-reinforced soil using a new strength parameter, M_{eq} .
- Ground improvement for shallow foundations – achieved 40% higher bearing capacity compared to unreinforced soil.
- The model was then implemented in PLAXIS 2D axisymmetric code for the analysis of soil improvement.

CONFERENCES & SEMINARS

- Second International Conference on Advances in Civil and Environmental Engineering (ICACEE-2023) (UET Taxila).
- 1st International Conference on Climate Change and Emerging Trends in Civil Engineering (2024) (GIK Institute and IIU Islamabad).