

# Osama Ahmad

Geologist, Geotechnical Engineer  
MS Scholar, Central South University China

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**Iqama status:** Transferable  
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## Key Skills and expertise:

Geotechnical engineering, Economic Geology, Geochemical Analysis, Soil and Material Testing (ASTM/British standards), Mineral identification, Software proficiency, Geological mapping, Fieldwork Analysis.

## PROFESSIONAL EXPERIENCE: (Saudi Arabia & China)

### **QC Civil Inspector & Field Geologist (2024/05 to 2025/06)**

#### **ABV Rock Group Co. Ltd**



- Excellent knowledge of standard penetration test SPT, CPT, Geological Mapping, drilling boreholes, & Rock strength using RMR, GSI and Q value
- Conducted core geological and geotechnical logging during exploration and drilling operations.
- Analyzed rock formations and interpreted geological data to determine subsurface characteristics and potential resource deposits
- Perform ERT, TRT tests to analyze underground structures and substrata information and find possible underground utilities
- Supervised the drilling and grouting and installation of Piezometers
- Familiar with international testing standards BS and ASTM
- Geological logging as per ASTM standard
- Logging for soil/ core samples
- Schedule for the laboratory testing of soil/ rocks
- Atterberg limits, plastic limit, Liquid, shrinkage limit and Plasticity index
- Performed Field Density Test
- Performed Proctor Test
- UCS, Proctor test, CBR, Sieve Analysis
- Involved in HSE activities / meetings at site as well as at workshop locations.
- Prepared Geotechnical Reports
- Soil Parameters, Angle of friction, Cohesion, Unit weight etc
- Interpreted 2-D & 8-D ERT data, Soft Logs According to Standard
- Preparation of borehole logs
- Collected, analyzed, and documented experimental data with precision

### **Field Geologist (2021/09 – 2024/06)**

Central South University, China

#### **Project title:**

“Metallogenic regularity and prediction of tungsten-polymetallic greisen mineralization in the Shizhuyuan orefield in South Hunan, published a paper from the data”.



## PROFESSIONAL EXPERIENCE: (Pakistan)

### **Material Inspector (2020/01 to 2021/07)**

#### **National Engineering Services Pakistan (NESPAK)**



- Handling/use of calibrated testing equipment. Standard testing procedures based on ASTM/British standard of soil, aggregate, concrete and Bitumen/Asphalt. It was the improvement and rehabilitation of existing carriageway from Peshawar to Shabqadar Naguman (34kms).
- Assisted in conducting experiments and maintaining laboratory equipment.
- Collected, analyzed, and documented experimental data with precision.
- Collaborated with team members to ensure adherence to safety protocols and quality standards.
- Participated in regular lab meetings, contributing insights and ideas for process improvement.
- Skilled in using excel for data analysis and interpretation.

- Different types of tests
  - Impact Test
  - Uniaxial Compressive strength
  - Sieves
  - Water Absorption Test
  - Field Density Test
  - Proctor Test
  - Schmitt hammer test
  - Triaxial test
  - Asphalt test

**Material Testing Technologist (2019/05/01 to 2019/07/05)**  
**National Centre of Excellence in Geology University of Peshawar**



- Lab Testing (Gradations, Proctors, Moistures, BIT Gradations)
- Field Testing (Concrete, Rebar, Densities, Moistures, Sampling, Plan Reading)
- Material Testing
- Data analysis and interpretation: Analyzed and interpreted the geotechnical data obtained from drilling, testing, and mapping to assess soil/rock properties and provide input for engineering design.
- Prepared comprehensive reports and documentation summarizing the geotechnical investigation findings, including data analysis, interpretations, and recommendations for further actions.

**Trainee Geologist (2018/09/01 to 2019/01/30)**  
**Khyber Pakhtunkhwa Oil and Gas Company Limited (KPOGCL)**

- Well Data Surface, Logging, Geotechnical Survey
- Software's, Sub-surface Geological Mapping



**Site Inspector/Highway (2017/06/01 to 2018/08/20)**  
**Associated Consulting Engineer – ACE (PVT) LTD.**

- Maintain detailed and accurate records of all testing procedures, including test parameters, equipment calibration, and environmental conditions.
- Work closely with other team members, including engineers, scientists, and support staff, to ensure seamless coordination of testing activities.
- Conduct a variety of material tests, including mechanical, chemical, and environmental assessments, in accordance with established standards and protocols. Such as SPT, Concrete Aggregate both (Fine Aggregate & Coarse Aggregate), different Soil, Cement & Bricks Test.
- Ensure compliance with relevant national and international testing standards and regulations.



**EDUCATION:**

**Masters in Geological Resources and Geological Engineering (2021/09 – 2024/06)**

Central South University, China  
 Final Grade: CGPA: 3.3/4

**Thesis title:**

“Geology and metallogenic prediction of the greisen-type W-Sn deposits in the Shizhuyuan orefield, southern Hunan, China”.



**Bachelor of Science in Geology (2016/09 – 2020/10)**

Abdul Wali Khan University Mardan, Pakistan  
 Final Grade: 83%, CGPA: 3.65/4

**Thesis title:** “Burial and Hydrothermal Dolomitization Model of the Devonian Shogrom Formation, Based On Petrography and Geochemical Analysis, Central Chitral, Karakorum Ranges, Pakistan”.



## **Diploma, Material testing civil (2018/03 – 2019/10)**

Khyber Pakhtunkhwa trade testing board Peshawar, Pakistan

Final Grade: 249/300



### **DIGITAL SKILLS**

- Coral draw
- Corelkit
- Gckit
- MS Office (Word/Excel/Power Point), Outlook
- GIS, Remote Sensing

### **SOFT SKILLS:**

- Excellent communication skills (written, verbal and presentation skills).
- Ability to take ownership, priorities and follow up issues.
- Leadership qualities with strong learning and initiative ability.

### **LANGUAGE SKILLS:**

- English (Advanced Level)
- Chinese (level 3)
- Pashto (Native)
- Urdu

### **Conferences & Seminars:**

- Annual technical conference 2019 (2019/11/18 to 21/11/2019) (Challenges and strategies to sustain E&P Growth) by SPE & AAPG.
- All Pakistan Geoscientists Association (APGA) Islamabad (26/11/2019 to 28/11/2019).

### **PUBLICATIONS:**

1. Hou Yuchen<sup>1</sup>, LIU Jianping<sup>1\*\*</sup>, Ahmad Osama<sup>1</sup>, Wang Hao<sup>1</sup>, Li Yanlin<sup>2</sup>, Wen Yizhuo<sup>3</sup>, "Metallogenic regularity and prediction of tungsten-polymetallic greisen mineralization in the Shizhuyuan orefield in South Hunan. <https://www.kcdz.ac.cn/kcdz/article/html/20240110> .
2. Khan, I., Ahmed, O., & Yar, S. A. (2023). Analyzing Land Use and Land Cover Dynamics Using Geospatial Approaches: A Case Study of District Lahore, Pakistan. *International Journal of Economic and Environmental Geology*, 14(04), 1-6. <https://doi.org/10.46660/ijeeg.v14i04.183>.
3. Jiantiao 1, Dengsheng bai 2, ZhiQiang Zhao 3, Osama Ahmad. (2025). Geochemistry of pyrite and its implications for exploration of the Jiuzhanggou gold deposit in western Henan <https://journal.geomech.ac.cn/cn/article/doi/10.12090/j.issn.1006-6616.2023140s>.

### **CONFERENCE ABSTRACT:**

Shah Fahad, Liu Chumming, Chen Rujun, Jawad Ahmad, Osama Ahmad: Experiment of audio-magnetotelluric and dual-frequency induced polarization joint inversion in a Pb-Zn ore deposit in inner magnolia, chinan, <https://library.seq.org/doi/10.1190/GEM2024-040.1>

### **RECOMMENDATION:**

- 1- **Dr. Said Mukhtar Ahmad**
  - Post doctorate, Peking University, China
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  - Phone: +92-343-4840391