

Osama Ahmad

*Geologist, Geotechnical Engineer
MS Scholar, Central South University China*

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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)

Field Geologist & QC Civil Inspector (2024/05 to 2025/06)
ABV Rock Group Co. Ltd



- Perform regular inspections of construction sites to verify that work is being completed according to design specifications, engineering drawings, and building codes.
- Oversee and conduct tests on construction materials (e.g., soil, concrete, and asphalt, steel) to ensure compliance with project specifications and industry.
- Review the WIRs submitted by contractors to ensure the completed work aligns with approved designs, specifications, and the Inspection and Test Plan (ITP) standards.
- Conduct quality control inspections across various civil engineering projects including roads, bridges, and commercial/residential buildings.
- Verify that the materials meet the specified standards and codes.
- Ensure compliance with health, safety, and environmental regulations, ensuring that all work sites are properly secured and free from hazards.

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).
- Familiar with international testing standards BS and ASTM.
- Conducted core geological and geotechnical logging during exploration and drilling operations.
- Excellent knowledge of standard penetration test SPT, CPT, Geological Mapping, drilling boreholes, & Rock strength using RMR, GSI and Q value.
- Performed Field Density Test.
- 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.
- UCS, CBR, Sieve Analysis.
- Schedule for the laboratory testing of soil/ rocks.
- Performed Proctor Test.
- Atterberg limits, plastic limit, Liquid, shrinkage limit and Plasticity index.
- Soil Parameters, Angle of friction, Cohesion, Unit weight etc.
- Involved in HSE activities / meetings at site as well as at workshop locations.

Material Testing Technologist (2019/03/01 to 2019/12/05)
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.
- Different types of tests
 - Impact Test
 - Uniaxial Compressive strength
 - Sieves
 - Water Absorption Test
 - Field Density Test
 - Proctor Test
 - Schmit hammer test
 - Asphalt test

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 Yuchen¹, LIU Jianping^{1**}, Ahmad Osama¹, Wang Hao¹, Li Yanlin², Wen Yizhuo³, "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**
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 - Phone: +92-343-4840391