

Name: MUHAMMAD JUNAID
Designation: Geologist\Geo Technical Engineer
Contact: +96 55 968 3002
Iqama: Valid & Transferable

Summary:

Experienced Geologist with 4+ years of experience in geotechnical investigations, mining exploration support, soil and materials testing, drilling supervision, geological mapping, and GIS-based site analysis for civil, infrastructure, and resource projects. Skilled in SPT, FDT, soil and rock sampling, CBR, Proctor, grain size analysis, compaction, and aggregate testing in accordance with ASTM standards, with experience in borehole logging, core description, mineral sampling, and subsurface interpretation. Proficient in ArcGIS and QGIS for geological mapping, terrain analysis, mineral prospect mapping, and technical reporting, with strong coordination skills across engineering and site teams.

Core Technical Skills

- **Geotechnical Engineering:**
SPT, CPT, Plate Load Test, Soil & Rock Sampling, Ground Improvement Support, Drilling Supervision, slope stability, Rock mass rating (RMR)
- **Laboratory Testing:**
CBR, Proctor, Grain Size Analysis, Atterberg Limits, Compaction, Aggregate Impact & Abrasion, Concrete Cube Strength,
- **GIS & Remote Sensing:**
ArcGIS, QGIS, DEM Analysis, Terrain & Slope Analysis, Land Cover Mapping, Spatial Analysis, Hazard Modelling, Mining
- **Software & Standards:**
ArcGIS Pro, QGIS, Petrel, Global Mapper, Python (basic), MS Office ASTM.

Professional Experience

Company: AL-MUHAYLIB GROUP.CO
Position: QA/QC Engineer
Duration: Feb 2025- March 2026
Project: Sajaya Al Mashriqiya Project- Janadriyah-Riyadh
Contractor: Building Specialized Contracting Company
Consultant: Ahmed Al Mousa for Engineering Consulting

- Conducted FDT using sand replacement and nuclear gauge for compaction control.
- Performed SPT, CPT, and PLT for subsurface investigation and bearing capacity assessment.
- Managed sand replacement tests for in-situ density verification.
- Carried out Proctor tests (MDD & OMC) for earthworks and filling materials.
- Conducted laboratory soil tests (moisture, grain size, Atterberg limits, shear strength).
- Supervised concrete tests (slump, compressive strength) for quality control.
- Prepared geotechnical and materials testing reports and coordinated with site team.

Company: Al Mardoof Company Client: Alfanar Building Systems

Position: Geologist

Duration: (Jan 2023- Dec 2024)

Project: Al -ULA Madinah Highways, Bridges & Roads

- Conducted soil and rock sampling for geotechnical and mining exploration activities.
- Assisted in borehole logging, lithological identification, and core sample documentation.
- Performed laboratory testing of soil, rock, and construction materials according to ASTM and BS standards.
- Utilized ArcGIS for geological mapping, spatial data analysis, and mineral exploration data visualization.
- Created GIS maps for mineral prospects, sampling locations, and geological formations to support mining exploration.
- Integrated field survey data and satellite imagery to analyze geological structures and potential mineral zones.
- Prepared technical reports, GIS maps, and laboratory documentation for project engineers and geologists.

Position: Geologist

Company: AL YASMEEN BLDG. CONSTRUCTION L.L.C Sharjah Emirate, United Arab Emirates.

Duration: (Dec 2022 - Nov 2023)

Projects Highlights: G+1 Villa & Compound Wall – Al Rahmania, Sharjah

RCC Transformer Foundation (600×800 cm) – SEWA

Key Roles:

- Led geotechnical investigations for villas, multi-story buildings, and infrastructure foundations.
- Conducted geological mapping, and soil/rock characterization according to international standards.
- Supervised field-testing programs (SPT, CPT, Plate Load) and ensured adherence to project specifications.
- Coordinated sample collection, lab testing, and core evaluation (RQD, TCR, SCR) for design purposes.

Position: Geotechnical Laboratory Supervisor

Duration: (October 2021 – October 2022)

Company: Material Testing Laboratories, College of Civil Engineering (NUST), Risalpur Cantt, Pakistan.

Job Description:

- Conducted material testing for C&W Department, NESPAK, and FWO projects.
- Performed soil classification, compaction tests, aggregate impact/abrasion tests, and concrete cube strength tests.
- Assisted in well logging and borehole analysis for sub-surface construction evaluations.
- Supported bitumen content analysis, CBR testing, and moisture-density

- relationships.
- Participated in quality assurance, field investigations, and preparation of lab report.

Position: Geotechnical Engineer

Duration: Sep 2019 – Nov 2020

Company: NHA (National Highway Authority)

Project: Peshawar Northern Bypass Project (Road Construction), Pakistan

Key Roles:

- Performed geotechnical and construction material testing for highway/road construction works.
- Conducted tests including SPT, grain size analysis, Atterberg limits, Proctor compaction, CBR, and field density tests (FDT).
- Prepared and verified borehole logs, laboratory reports, and test records.
- Ensured all testing and documentation complied with ASTM/BS and project specifications.
- Maintained accurate laboratory and site documentation, including test registers and reports.
- Coordinated with project engineers to support road alignment, subgrade evaluation, and foundation assessment.

Education:

- Bachelor of Science in Geology, Abbottabad University of Science and Technology (AUST), (2016–2020)
- Master (Post graduated) in GIS & Remote Sensing, National Centre of Excellence in Geology (NCEG), University of Peshawar (2020–2021)

Certifications

- ArcGIS Pro Advanced
- Remote Sensing & Digital Image Processing
- Geotechnical Testing (ASTM/BS Standards)
- Seismic Interpretation (Petrel)
- Python for Geosciences (Basic)

Languages

- English (Fluent)