

LUQMAN KHAN (Geophysicist)

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Objective:

"To secure a challenging position in a reputable organization where I can apply my skills and training to contribute to the company's success, while continuously growing professionally and pursuing long-term career development through meaningful responsibilities and opportunities."

SUMMARY:

Highly organized and self-motivated Geophysicist with a strong academic foundation, holding an MS in Geophysics from the National Center of Excellence in Geology, University of Peshawar, Pakistan. I have hands-on experience in geophysical data acquisition, processing, and interpretation, with a solid background from roles at GeoXpert services, EarthTech Engineering services and the GSAG Lab NCE in Geology. Proficient in geotechnical and hydrogeological investigations using advanced geophysical techniques including SRT, ERT, VES, MASW, GPR, Cross-Hole, and Down-Hole methods. Recognized as a dependable and insightful team member in both research and field environments.

PROFESSIONAL EXPERIENCE:

Organization : **National Center of Excellence in Geology**
Organization type : **Research Center**
Designation : **Research Assistant / Geophysicist**
Tenure : **Sep 2023 – Feb 2025**

Duties & Responsibilities:

- Conduct field investigations using geophysical methods for groundwater mapping and hydrogeological studies.
- Set up and calibrate geophysical equipment to ensure high-quality data collection under diverse field conditions.
- Support the planning and logistics of field campaigns, including site selection, instrumentation layout, and safety procedures.
- Process raw geophysical data using specialized software's to generate subsurface models.
- Interpret geophysical data in the context of hydrogeological frameworks to identify aquifer systems, recharge zones, and subsurface flow paths.
- Support the development of conceptual and numerical groundwater flow models in collaboration with hydrogeologists.
- Run MIF models using weighted overlay analysis for Groundwater potential zonation.
- Contribute to technical reports, proposals, and presentations for academic and stakeholder dissemination.
- Maintain accurate records of research activities, data sets, and metadata for project documentation.
- Work closely with multidisciplinary research teams, including hydrologists, geologists, and environmental scientists.
- Participate in training workshops, community outreach, and knowledge transfer sessions to support water resource awareness and capacity development.
- Taught geophysical courses i., e Introduction to geophysics, Applied Geophysics, Exploration Geophysics.
- Supervised students in the academic research.

Organization : **EarthTech Engineering Services pvt limited**
Organization Type : **Engineering**
Designation : **Geophysicist**
Tenure : **April 2022 – March 2023**

Duties & Responsibilities:

- Plan and execute geophysical surveys.
- Interpret and analyze geophysical data to identify subsurface structures and potential hazards.
- Develop geophysical models to understand subsurface geology.
- Collaborate with clients and team members to deliver high-quality results.
- Manage projects, ensure quality control, and prepare reports.
- Maintain geophysical equipment and adhere to safety protocols.
- Stay updated with latest geophysical techniques and technologies.
- Provide training and guidance to junior geophysicists and technicians.

Organization : **GeoXpert Services**
Organization Type : **Exploration & Engineering**
Designation : **Assistant Geophysicist**
Tenure : **Oct 2019 – Sep 2021**

CURRICULUM VITAE

Duties & Responsibilities:

- Plan and execute a range of geophysical surveys (seismic refraction, MASW, ERT, VES, GPR, etc.) in alignment with project objectives.
- Interpret and analyze geophysical data to identify subsurface structures, geological features, and potential hazards.
- Support the processing of raw geophysical data using industry-standard software tools.
- Assist in interpreting survey results to generate subsurface models and identify geological structures and potential hazards.
- Integrate geophysical findings with geological, and hydrogeological datasets to support comprehensive subsurface evaluations.
- Prepare preliminary reports, maps, charts, and figures for internal and client use
- Contribute to the preparation of detailed technical reports and documentation under the guidance of senior staff.
- Collaborate effectively with multidisciplinary teams, including geologists, hydrogeologists and engineers.
- Communicate technical information clearly to both technical and non-technical stakeholders
- Assist in logistical planning for fieldwork including site preparation, equipment transport, and permitting

PROFESSIONAL Qualification

Degree / Certification	University / Institute	Specialization	Percentage	Passing Year
MS - Geophysics	National Center of Excellence in Geology, UOP	Hydrogeophysics	78	2024
BS - Geophysics	Bacha Khan University Charsadda KP Pakistan	Oil & Gas	78.89	2018

COMPUTER SKILLS

- Res2dInv, IPI2Win, Surfer, Seisimager, Kingdom, Rockworks, ArcGIS, WellCAD
- Coral Draw
- MS Office Automation (MS word, MS Excel, MS ppt)

PROFESSIONAL SKILLS

- Ability to effectively present information about hydrogeological and geotechnical investigations according to the ratio of signals to all levels verbally and in written reports.
- Being accurate under pressure
- Ability to perform analytical functions and resolve software issues during geophysical data Interpretation
- Considerable knowledge of modern office methods, practices, procedures, and equipment
- Self-motivation, organization skills, ability to manage deadlines and Pre-plan all upcoming activities

GEOPHYSICAL SURVEYS

- Electrical Resistivity Tomography (ERT)
- Vertical Electrical Sounding (VES)
- Multichannel Analysis of Surface Waves (MASW)
- Seismic Refraction
- Cross hole tomography
- Down hole Testing
- Ground Penetrating Radar (GPR)
- Resistivity logging (LLD, LLS, MSFL)
- SP Logging
- GR Logging

LANGUAGES

English : Fluent
Arabic : Fair
Urdu : National Language
Pashto : Mother Tongue

References:

It will be furnished upon request.