Pratik Khatiwada

GEOLOGIST — STRUCTURAL GEOLOGY & APPLIED GEOPHYSICS

pratikkhatiwada101@gmail.com
Kathmandu, Nepal

Field geologist with hands-on experience in electrical resistivity tomography (ERT), multichannel analysis of surface waves (MASW), drill-core logging and geological mapping for hydropower investigations in some of Nepal's most remote mountain districts. B.Sc. in Geology from Tribhuvan University, with structural mapping experience across the Lesser and Sub-Himalaya.

Professional Experience

Geologist — Hydropower Site Investigation 2026

Quartz Group Pvt. Ltd., Nepal

- **Bajhang — Seti River (Naya & Kaya):** ERT and MASW surveys with geological mapping for hydropower feasibility.
- **Jumla — Gidi Lake & Gidi Khola:** ERT survey, geological mapping and geohazard assessment.

Geologist — Subsurface Investigation 2026

Planet Test Pvt. Ltd., Nepal

- **East Rukum — Sani Bheri Hydropower Project:** systematic drill-core logging (lithology, structures, RQD) and pit sampling for geotechnical characterisation.

Geologist — Core Drilling & Logging 2026

Geo Testing and Construction Pvt. Ltd., Nepal

- **Solukhumbu — Dudh Koshi:** core drilling supervision, GPS navigation of drill-hole locations and core logging.

Education

B.Sc. in Geology 2020 – 2024

Tri-Chandra Multiple Campus, Tribhuvan University, Kathmandu

- Final year 80.2% · Overall 66.15%

Field Programmes & Reports

Capstone Field Investigation — Tansen–Butwal Area 2024 · 28 days

Palpa & Rupandehi · Tinau Khola section, Lesser and Sub-Himalaya

- Regional geological traverse mapping and cross-sections from the Siwalik Group across the Main Boundary Thrust to the Amile Formation.
- Structural, hydrogeological and engineering-geology observations; identification of geohazard zones.

Geological Study — Malekhu Area, Central Nepal 2023 · 15 days

Dhading · Nawakot and Kathmandu Complexes

- Lithology, stratigraphy and structural geology; identification of the Mahabharat Thrust.

Khatiwada, P. (2024). *Geological study of the Tansen–Butwal Area, Nepal: Regional mapping, structural interpretation, hydrogeology, engineering geology, and mineral deposits.* Department of Geology, Tri-Chandra Multiple Campus, Tribhuvan University.

Khatiwada, P. (2023). *Geological study of the Malekhu Area, Central Nepal: Lithology, stratigraphy, and structural geology of the Nawakot and Kathmandu Complexes.* Department of Geology, Tri-Chandra Multiple Campus, Tribhuvan University.

Technical Skills

GEOPHYSICS & ANALYSIS

ERT · advanced | MASW · advanced | VES · proficient | Stereonet & structural analysis

GIS & SOFTWARE

QGIS · advanced | ArcGIS Pro / ArcMap · advanced | AutoCAD & CorelDRAW | Google Earth Pro

FIELDWORK

Geological mapping (1:10,000–1:50,000) | Structural measurement | Drill-core logging & RQD | Pit sampling | Geohazard assessment | GPS / GNSS survey | Remote & high-altitude terrain | Field photography

Training & Outreach

Environmental Geophysics Training — Participant & Field Assistant 2025

SEG Student Chapter, Central Department of Geology, Tribhuvan University

- Delineation of the contamination zone of the Bagmati River: survey design and data collection.

Exhibitor — 5th Geo-Science Exhibition Mar – Apr 2025

Nepal Geological Students' Society (NGSS) & Central Department of Geology, TU

- Presented rock and mineral specimens, rock-forming processes and their economic significance to a public audience.

Field Footprint & Languages

Districts: Bajhang, Jumla, East Rukum, Solukhumbu, Palpa, Dhading

Languages: Nepali (native) · English (professional working proficiency)