



Anshuman Mohanty
Mining Engineer Intern

Education

BA, Civil Engineering, University of British Columbia, 2024

Experience Summary

Mr. Mohanty is a Mining Engineer with experience in underground mine planning, geological and numerical modeling, geomechanical testing, kinematic analysis, and slope stability analysis. Anshuman is proficient in Rocscience, AutoCAD (FLAC2D and 3D), Minesight, and Microsoft Office products.

Project Experience

COAL AND POTASH SAMPLING | COLORADO

Assisted in conducting tests on coal and potash samples using a linear cutting machine. (Colorado School of Mines, 2023 to 2024)

VARIOUS RESEARCH PROJECTS | INDIA

Led mining research projects in analyzing mine traverse sections, cross-sections, and production blast seismograph readings. Optimized the drill and blast design parameters and reduced blast-induced ground vibrations and fly rock trajectories. Also conducted geotechnical logging of coal samples and performed geomechanical testing. (National Institute of Technology, 2022 to 2023)

BARITE AND IRON ORE MINES | INDIA

Modeled safe slope models for multiple operational pits and deduced critical geomechanical parameters to clarify rock behavior. Designed safe slope models, improved slope stability, and established a standardized correlation between the slope's factor of safety (FOS) and the bench height. (National Institute of Technology, 2020 to 2022)

Employment History

CURRENT EMPLOYER	TIERRA GROUP INTERNATIONAL, LTD.
POSITION	Mining Engineer Intern
YEARS	2024 to Present
EMPLOYER	COLORADO SCHOOL OF MINES
POSITION	Lab Assistant
YEARS	2023 to 2024
EMPLOYER	NATIONAL INSTITUTE OF TECHNOLOGY
POSITION	Project Associate
YEARS	2022 to 2023
EMPLOYER	NATIONAL INSTITUTE OF TECHNOLOGY
POSITION	Research Intern
YEARS	2020 to 2022

Publications / Presentations

Mohanty, A, 2023. *Utilization of graphene to attain sustainability in mine methodology: a review*. Carbon Letter 33, 641-660 (2023). <https://doi.org/10.1007/s42823-023-00476-5>

Mohanty, A, 2021. *Chemical Modification of Solid Surfaces by the Use of Additives*, pp. 94-119. <https://doi.org/10.2174/97898150368171210101>

Mohanty, A, MK Mishra, S Ghosh, BB Sahoo, C Behera, J Rostami, and MD Sesay. *Geotechnical Implications of Large Shale Deposits on the Stability and Productivity of Iron Ore Mines: A Comparative Study*. Paper presented at the 58th U.S. Rock Mechanics/Geomechanics Symposium, Golden, Colorado, USA, June 2024. doi: <https://doi.org/10.56952/ARMA-2024-1124>

Language Proficiency

Hindi: Native
English: Advanced