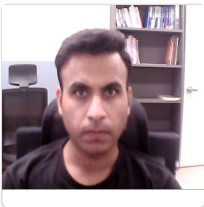# Muhammad Naqeeb Nawaz

Lab Engineer

NUST Institute of Civil Engineering

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LinkedIn:

About

Dr. Muhammad Naqeeb Nawaz is working as Lab Engineer in the NUST Institute of Civil Engineering. Dr. Muhammad Naqeeb Nawaz has published 18 research articles & conference papers having a citation count of 303, carried out 0 projects and filed 0 intellectual property.

Qualifications

MS in Geotechnical Engineering   2019 - 2022
  NUST, Islamabad , Pakistan

BSc in Civil Engineering   2013 - 2017
  UET Taxila , Pakistan

Experience

Lab Engineer   2022- Present
  NUST Institute of Civil Engineering

Lab Engineer   2022 - 2022
  NUST Institute of Civil Engineering

Lab Engineer   2022 - 2022
  NUST Institute of Civil Engineering

Lab Engineer   2018 - 2022
  (Do Not Use-Duplicate)NUST Institute of Civil Engineering

Awards

Dr. AQ Khan Gold Medal
  Got first position in matric on Tehsil Level

Research Articles

Grey-box solution for predicting thermo-mechanical response of rocks   2024
  Muhammad Naqeeb Nawaz
  Geothermics , Volume 124, Article Number 103144
  Impact Factor: 3.500 | **Quartile:** 1
  DOI: https://doi.org/10.1016/j.geothermics.2024.103144

Utilizing undisturbed soil sampling approach to predict elastic modulus of cohesive soils: a Gaussian process regression model   2024
  Muhammad Naqeeb Nawaz Muhammad Hasnain Ayub Khan Waqas Hassan Syed Taseer Abbas Jaffar Syed Muhammad Turab Haider Jafri
  Multiscale and Multidisciplinary Modeling, Experiments and Design, Volume 7, Pages 4255-4270
  Impact Factor: 1.900 | **Quartile:** 2 | **Citations:** 11
  DOI: https://doi.org/10.1007/s41939-024-00458-8

Integrative Geospatial Analysis: Unveiling Insights through GIS Modeling and Statistical Evaluation of SPT-N and Soil Types Data of New Kabul City, Afghanistan   2024
  Mohammad Amini Longsheng Deng Waqas Hassan Muhammad Naqeeb Nawaz Fatima Zahra Zidane Fatima Zahra Zidane Ranke Fang
  Advances in Civil Engineering , Volume 2024, Article ID 9925038, 24 pages
  Impact Factor: 1.500 | **Quartile:** 3 | **Citations:** 6
  DOI: https://doi.org/10.1155/2024/9925038

Gene expression programming-based multivariate model for earth infrastructure: predicting ultimate bearing capacity of rock socketed shafts in layered soil-rock strata
2024

Muhammad Naqeeb Nawaz Muhammad Haseeb Sana Ullah Qamar Waqas Hassan Arfan Shahzad

Modeling Earth Systems and Environment, Volume 10, Pages 5241-5256

Impact Factor: 2.700 | **Quartile:** 3 | **Citations:** 12
DOI: https://doi.org/10.1007/s40808-024-02061-9

Predicting the rock cutting performance indices using gene expression modeling
2024

Syed Muhammad Turab Haider Jafri Muhammad Naqeeb Nawaz Jun-Sik park Syed Taseer Abbas Jaffar Rahat Hussain Tae-Min Oh

Modeling Earth Systems and Environment, Volume 10, Issue 4, Pages 5783-5798

Impact Factor: 2.700 | **Quartile:** 3 | **Citations:** 3
DOI: https://doi.org/10.1007/s40808-024-02097-x

Multivariate formulation to predict the frictional strength of fiber reinforced soils using gene expression programming
2024

Muhammad Naqeeb Nawaz Ahmed Yar Akhtar Tariq Ahmed Awan Muhammad Muneeb Nawaz Sana Ullah Qamar Taimoor Shehzad Waqas Hassan Shah Rukh Khan Rashid Farooq

Engineering Applications of Artificial Intelligence, Volume 134, Article Number 108660

Impact Factor: 7.500 | **Quartile:** 1 | **Citations:** 20
DOI: https://doi.org/10.1016/j.engappai.2024.108660

Mathematical formulation for predicting moisture damage indices of asphalt mixtures treated with sustainable waste plastic modifiers using gene expression programming
2024

Safeer Haider Muhammad Naqeeb Nawaz Imran Hafeez Muhammad Muneeb Nawaz Marc Azab Moawia Hassan

Construction and Building Materials, Volume 426, Article Number 136146

Impact Factor: 7.400 | **Quartile:** 1 | **Citations:** 10
DOI: https://doi.org/10.1016/j.conbuildmat.2024.136146

Artificial intelligence-based prediction models of bio-treated sand strength for sustainable and green infrastructure applications
2024

Muhammad Naqeeb Nawaz Ahmed Yar Akhtar Waqas Hassan Muhammad Hasnain Ayub Khan Muhammad Muneeb Nawaz

Transportation Geotechnics, Volume 46, Article Number 101262

Impact Factor: 4.900 | **Quartile:** 1 | **Citations:** 22
DOI: https://doi.org/10.1016/j.trgeo.2024.101262

Predictive Modelling of Cohesion and Friction Angle of Soil using Gene Expression Programming: A Step Towards Smart and Sustainable Construction
2024

Muhammad Naqeeb Nawaz Badee Alshameri Zain Maqsood Waqas Hassan

Neural Computing and Applications, Pages 1-22

Impact Factor: 6.000 | **Quartile:** 2 | **Citations:** 18
DOI: https://doi.org/10.1007/s00521-024-09626-w

Prediction of soil compaction parameters through the development and experimental validation of Gaussian process regression models
2024

Muhammad Hasnain Ayub Khan Syed Muhammad Turab Haider Jafri Sameer Ud-Din Haji Sami Ullah Muhammad Naqeeb Nawaz

Environmental Earth Sciences, Volume:83, Issue:4, Article Number: 129

Impact Factor: 2.8 | **Quartile:** 2 | **Citations:** 20
DOI: 10.1007/s12665-024-11433-4

A sustainable approach for estimating soft ground soil stiffness modulus using artificial intelligence
2023

Muhammad Naqeeb Nawaz Muhammad Muneeb Nawaz Tariq Ahmed Awan Syed Taseer Abbas Jaffar Syed Muhammad Turab Haider Jafri Tae-Min Oh Waqas Hassan Marc Azab

Environmental Earth Sciences, Volume 82, Issue 23, Article Number 579

Impact Factor: 2.800 | **Quartile:** 2 | **Citations:** 20
DOI: https://doi.org/10.1007/s12665-023-11193-7

Experimental Investigation of Mechanical Behavior of Geosynthetics in Different Soil Plasticity Indexes
2023

Waqas Hassan Khalid Farooq Hassan Mujtaba Badee Abdulqawi Hamood Al-Shameri Arfan Shahzad Muhammad Naqeeb Nawaz Marc Azab

Transportation Geotechnics, Volume 39, Article Number 100935

Impact Factor: 4.938 | **Quartile:** 1 | **Citations:** 26
DOI: https://doi.org/10.1016/j.trgeo.2023.100935

Statistical interpolation and spatial mapping of geotechnical soil parameters of District Sargodha, Pakistan
2023

Waqas Hassan Muhammad Fazal Raza Badee Abdulqawi Hamood Al-Shameri Arfan Shahzad Muhammad Hamza Khalid Muhammad Naqeeb Nawaz

Bulletin of Engineering Geology and the Environment, Volume 82, Issue 1, Article Number 37

Geospatial and statistical interpolation of geotechnical data for modeling zonation maps of Islamabad, Pakistan

2022

Waqas Hassan Badee Abdulqawi Hamood Al-Shameri Muhammad Naqeeb Nawaz Zain Ijaz Muhammad Qasim

Environmental Earth Sciences , Volume 81, Issue 24, Article Number 547

Experimental study on shear strength behavior and numerical study on geosynthetic-reinforced cohesive soil slope

2022

Waqas Hassan Badee Alshameri Muhammad Naqeeb Nawaz Sana Ullah Qamar

Innovative Infrastructure Solutions , Volume 7, Issue 6, Article Number 349

A robust prediction model for evaluation of plastic limit based on sieve # 200 passing material using gene expression programming

2022

Muhammad Naqeeb Nawaz Sana Ullah Qamar Badee Alshameri Muhammad Muneeb Nawaz Waqas Hassan Tariq Ahmed Awan

PLoS ONE , Volume 17(10), Article Number e0275524

The Study using Machine Learning Approach for Novel Prediction Model of Liquid Limit

2022

Muhammad Naqeeb Nawaz Sana Ullah Qamar Badee Alshameri Steve Karam Merve Kayacı Çodur Muhammad Muneeb Nawaz Malik Sarmad Riaz Marc Azab

Buildings , Volume 12, Issue 10, Article Number 1551

Analysis of Gabion Retaining Wall Using Analytical and Numerical modelling with Plaxis 2D

2021

Ahmad Ayyub Badee Alshameri Syed Muhammad Jamil Muhammad Naqeeb Nawaz

University of Wah Journal of Science and Technology, Volume 5, Issue 1, Pages 12-19