

Syed Muhammad Jamil

Consultant

NUST Institute of Civil Engineering

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About

Dr. Syed Muhammad Jamil is working as Consultant in the NUST Institute of Civil Engineering. Dr. Syed Muhammad Jamil has a PhD in (Geotechnical). Dr. Syed Muhammad Jamil has published 12 research articles & conference papers having a citation count of 137, carried out 35 projects and filed 0 intellectual property.

Qualifications

PhD in (Geotechnical) University of Illinois at Urbana-Champaign , United States	1989 - 1992
MSc in Geotechnical University of Illinois at Urbana-Champaign , United States	1987 - 1989
BE in Civil Engineering Military College Of Engineering Risalpur , Pakistan	1979 - 1982

Experience

Consultant NUST Institute of Civil Engineering	2021- Present
Regular Visiting Faculty School of Civil & Environmental Engineering	2021 - 2021
Regular Visiting Faculty School of Civil & Environmental Engineering	2008 - 2021
Director Design and Consultanc E-in-C Branch , E-in-Branch GHQ Rawaplindi	2006 - 2008
Dir DD & C E-in-C E-in-C Branch GHQ , E-in-Branch GHQ Rawaplindi	2006 - 2008
Chief Consulting Engg E-in-C Branch , E-in-C Branch GHQ Rawaplindi	2000 - 2006
Instructor (Asst Professor) MCE, Risalpur , MCE Risalpur	1994 - 2000
Instructor/ -A MCE , MCE Risalpur	1994 - 2000
Instructor/ C MCE , MCE Rasilpur	1984 - 1986
Instructor Class "C MCE, Risalpur , MCE Rasilpur	1984 - 1987
Site Engineer, Construction of FWO , FWO	1983 - 1984

Awards

Tamgha-i-Sadsala jashan-e

E/73/77

Hijri Tamgha

E/65/81

Democracy Medal

E/312/89

Mountaineering Insignia

E/224/89

Pak Resoulution Day Golden

E/160/90

10 years Svc Medal

E/330/90

20 years Svc Medal

E/228/94

Pak Independence Day Gold

E/36/97

Tamgha-I-baqa

E/6/2000

Tamgha-I-Istabal

E156/2004

Sitara Imtiaz SI(M)

CORO Part II order No 98 dated 4/4/2007

Professional Memberships

PEC

Industry Projects

National Projects

Implement a shallow seismic survey at Balakot Project, Mansehra District, Khyber Pakhtunkhwa

2024

Client: BK Consultants (PVT) Lt

Amount: PKR 90,000.00

Status: Completed

Geotechnical Consultancy Project for "Geotechnical Investigations for HEC Secretariat Building at HEC

2024

H-8 Premises, Islamabad"

Client: NESPAK

Amount: PKR 764,900.00

Status: Completed

Geotechnical Consultancy Project for "Preliminary Geotechnical Investigation for NCLS College at

2024

NUST H-12, Islamabad"

Client: Project Management Office (PMO) NUST, Pakistan

Amount: PKR 808,000.00

Status: Completed

Geotechnical Consultancy for Construction of Box Culverts at C-14, Islamabad

2024

Client: Capital Development Authority (CDA), Pakistan

Amount: PKR 1,948,000.00

Status: Completed

Geotechnical Consultancy Project for "Field Density Tests at German Embassy, Islamabad.

2023

Client: DVK Construction Pvt Ltd

Amount: PKR 208,500.00

Status: Completed

<p>Geotechnical Consultancy for Design of Foundation for Upgradation of NCRD Complex, Phase-III, at Chak Shahzad, Islamabad</p> <p>Client: Pakistan Public Works Department (PWD) Amount: PKR 646,000.00 Status: Completed</p>	2024
<p>Geotechnical Consultancy Project for “Geotechnical Investigation for Newly Proposed 132 KV Grid Station at Cabinet Division Employees Cooperative Housing Society, Islamabad”</p> <p>Client: Islamabad Electric Supply Company (IESCO), Pakistan Amount: PKR 688,010.00 Status: Completed</p>	2023
<p>Geotechnical Consultancy Project for “Geotechnical Investigation for Construction of BOQs (Male) (Adjacent to Under Construction Male BOQ building)”</p> <p>Client: Project Management Office (PMO) NUST, Pakistan Amount: PKR 411,200.00 Status: Completed</p>	2023
<p>Geotechnical Consultancy for Construction of 132 KV Grid Station at Shakrial, Rawalpindi</p> <p>Client: Islamabad Electric Supply Company (IESCO), Pakistan Amount: PKR 648,000.00 Status: Completed</p>	2023
<p>Geotechnical Consultancy for Design of Foundation for Transmission Tower at 132 KV, CHAKSAWARI, MIRPUR</p> <p>Client: Islamabad Electric Supply Company (IESCO), Pakistan Amount: PKR 800,000.00 Status: Completed</p>	2023
<p>Geotechnical Consultancy for Construction of 132 KV Grid Station at EMAAR Housing Society, Islamabad</p> <p>Client: Islamabad Electric Supply Company (IESCO), Pakistan Amount: PKR 851,000.00 Status: Completed</p>	2023
<p>Geotechnical Consultancy Project for “Soil Investigation for Newly Proposed 132 kV Grid Station Khanpur Under 7th STG</p> <p>Client: Islamabad Electric Supply Company (IESCO), Pakistan Amount: PKR 891,000.00 Status: Completed</p>	2022
<p>Geotechnical Investigation for Construction of PCC Drain/Nullah Along Sr (West) & (South) Sector D-12/1-2, Islamabad</p> <p>Client: Capital Development Authority (CDA), Pakistan Amount: PKR 324,000.00 Status: Completed</p>	2022
<p>Geotechnical Consultancy Project for “Field Density Tests at German Embassy, Islamabad”</p> <p>Client: DVK Construction Pvt Ltd. Amount: PKR 138,500.00 Status: Completed</p>	2022
<p>Geotechnical investigation for determination of Bearing capacity of soil bridges at service road (north) sector h-10 and service road (south), Sector h-10, islamabad</p> <p>Client: Capital Development Authority (CDA), Pakistan Amount: PKR 1,000,000.00 Status: Completed</p>	2022
<p>Geotechnical Consultancy for Construction of 132 KV Grid Station at Rewat Industrial Area - Rawat</p> <p>Client: IESCO Islamabad Amount: PKR N/A Status: Completed</p>	2022
<p>Soil Investigation for Construction of 2 × NG-Staff Apartments at NUST H-12 Sector, Islamabad</p> <p>Client: Project Management Office (PMO) NUST, Pakistan Amount: PKR 887,000.00 Status: Completed</p>	2022

<p>Soil Investigation for Construction of Boys Hostel at NUST H-12 Sector, Islamabad</p> <p>Client: Project Management Office (PMO) NUST, Pakistan Amount: PKR 1,130,000.00 Status: Completed</p>	2022
<p>Soil Investigation for Construction of Girls Hostel at NUST H-12 Sector, Islamabad</p> <p>Client: Project Management Office (PMO) NUST, Pakistan Amount: PKR 1,110,000.00 Status: Completed</p>	2022
<p>Geotechnical Consultancy Project for "Soil Investigation of Construction of Access Road from Kuri Road Leading to the Plots Allotted to Special Technology Zone (STZ) Chak Shahzad, Islamabad</p> <p>Client: Capital Development Authority (CDA), Pakistan Amount: PKR 646,400.00 Status: Completed</p>	2021
<p>Soil Investigation of CONSTRUCTION OF CELL BOX CULVERTS IN SECTOR C-15, ISLAMABAD</p> <p>Client: Capital Development Authority (CDA), Pakistan Amount: PKR 805,000.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy for Construction of Panahgah's for Pakistan Baitul Maal at Tarlali Kalan and Tarnol Islamabad</p> <p>Client: Pakistan Public Works Department (Pak PWD) Amount: PKR 911,600.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy for Construction of Cell Box Culverts at Sector I-12, Islamabad</p> <p>Client: Sector Development Division-I of Capital Development Authority (CDA) Islamabad Amount: PKR 991,500.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy – Third Party Evaluation for Compaction Test with Light Weight Drop Plate at German Embassy, Islamabad</p> <p>Client: Qavi Engineers (Pvt.) Ltd Amount: PKR 150,000.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy for Construction of National Academy of Public Accounts and Finance, Islamabad</p> <p>Client: Development Consultancy Services (Pvt.) Ltd Amount: PKR 522,750.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy for "Soil Investigation of Newly Proposed 132 KV Grid Station DHA Phase-1V, Rawalpindi"</p> <p>Client: Islamabad Electric Supply Company (IESCO, Pakistan) Amount: PKR 835,600.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy for Construction of CIPS-II at NUST H-12 Campus, Islamabad</p> <p>Client: Project Management Office (PMO) NUST, Pakistan Amount: PKR 381,600.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy for Flyover-Infrastructure Development of Sector-D at PN Farms Islamabad</p> <p>Client: Anchor Development and Construction Company (ADCC) (Pvt.) Ltd., Pakistan Amount: PKR 249,700.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy for Construction of Covered Car Parking at FBR Head Quarter Islamabad</p> <p>Client: Pakistan Public Works Department, Pakistan Amount: PKR 259,463.00 Status: Completed</p>	2021
<p>Geotechnical Consultancy for Construction of 132 KV Grid Station at I-11 Islamabad</p> <p>Client: Islamabad Electric Supply Company (IESCO, Pakistan) Amount: PKR 776,002.00</p>	2021

Status: Completed	
Geotechnical Consultancy for Construction of NUST Interdisciplinary Cluster for Higher Education (NICHE) at NUST H-12 Campus, Islamabad	2021
Client: Project Management Office (PMO) NUST, Pakistan	
Amount: PKR 302,000.00	
Status: Completed	
Geotechnical Consultancy for Construction of 3 Cell Box Culverts at I-11/2 Islamabad	2021
Client: Capital Development Authority (CDA), Pakistan	
Amount: PKR 359,400.00	
Status: Completed	
Geotechnical Consultancy for Construction of 33 KV Grid Station at SAHAAR Mirpur, AJK	2021
Client: Islamabad Electric Supply Company (IESCO), Pakistan	
Amount: PKR 761,400.00	
Status: Completed	
Geotechnical Consultancy for Soil Investigation using Pressuremeter Testing at DHA Phase-V Islamabad	2021
Client: Universal Drilling Engineers, Lahore	
Amount: PKR 391,000.00	
Status: Completed	
Design for Construction of Mini Dam at Tehsil Naushera, District Khushab	2020
Client: N/A	
Amount: PKR 1,804,910.00	
Status: Approved_inprocess	

International Projects

Research Articles

Data-Driven Approach to Enhance Deep Foundation Safety: Reliable Methods for Predicting Bored Pile Capacity	2025
<i>Usman Hasan Jalali Badee Abdulqawi Hamood Al-Shameri Muhammad Hamza Khalid Waqas Hassan Lokmane Abdeldjouad Syed Muhammad Jamil Syed Hassan Farooq Zain Maqsood</i>	
<i>International Journal of Geo-Engineering</i> , Volume 16, Article Number 16	
Impact Factor: 7.100 Quartile: 1	
DOI: https://doi.org/10.1186/s40703-025-00247-3	
Comparison of Seepage Evaluation Methods for Earth-Filled Embankments: A Case Study of Sukian Dyke, Mangla Dam	2023
<i>Muhammad Hamza Khalid Tanzeela Yasmin Badee Alshameri Syed Muhammad Jamil Waqas Hassan</i>	
<i>Modeling Earth Systems and Environment</i> , Pages 1-14	
Impact Factor: 2.700 Quartile: 3	
DOI: https://doi.org/10.1007/s40808-023-01905-0	
An innovative application of fine marble dust for the construction industry to mitigate the piping, internal erosion and dispersion problems of sodium-rich clays	2023
<i>Waqas Hassan Badee Alshameri Zain Maqsood Abbas Haider Syed Muhammad Jamil Hassan Mujtaba</i>	
<i>Construction and Building materials</i> , Volume 408, Article Number 133834	
Impact Factor: 7.4 Quartile: 1 Citations: 16	
DOI: https://doi.org/10.1016/j.conbuildmat.2023.133834	
A novel technique for the construction industry to mitigate dispersibility and internal erosion problems of Sodium rich clays by using Water-Soluble Potassium Rich Ions Material	2023
<i>Waqas Hassan Badee Abdulqawi Hamood Al-Shameri Abbas Haider Zain Maqsood Syed Muhammad Jamil Arfan Shahzad</i>	
<i>Construction and Building Materials</i> , Volume 400, Article Number 132780	
Impact Factor: 7.4 Quartile: 1 Citations: 16	
DOI: https://doi.org/10.1016/j.conbuildmat.2023.132780	
Incorporating potassium-rich waste material in a sustainable way to stabilize dispersive clay: A novel practical approach for the construction industry	2023
<i>Waqas Hassan Badee Abdulqawi Hamood Al-Shameri Syed Muhammad Jamil Zain Maqsood Abbas Haider Arfan Shahzad</i>	
<i>Construction and Building Materials</i> , Volume 400, Article Number 132717	

Impact Factor: 7.4 | **Quartile:** 1 | **Citations:** 26
DOI: <https://doi.org/10.1016/j.conbuildmat.2023.132717>

Sustainable incorporation of Plaster of Paris kiln dust for stabilization of dispersive soil: A potential solution for construction industry 2023

Bushra Fatima Badee Abdulqawi Hamood Al-Shameri Waqas Hassan Zain Maqsood S. Muhammad Jamil Aziman Madun Construction and Building Materials, Volume 397, Article Number 132459

Impact Factor: 7.4 | **Quartile:** 1 | **Citations:** 29
DOI: <https://doi.org/10.1016/j.conbuildmat.2023.132459>

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

Impact Factor: N/A
DOI: <https://www.uwjst.org.pk/index.php/uwjst/article/view/65>

Comparative study of various interpretative methods of the pile load test 2021

Badee Abdulqawi Hamood Al-Shameri Ahrar Mahmood Muhammad Hamza Khalid Syed Muhammad Jamil Innovative Infrastructure Solutions, Volume 7, Article Number 102

Impact Factor: N/A | **Citations:** 7
DOI: <https://doi.org/10.1007/s41062-021-00697-5>

Experimental and Numerical Modeling of Bearing Capacity of Foundations on Soft Clay Stabilized with Granular Material 2021

Badee Alshameri Zahra Bashir Malik Syed Muhammad Jamil Daanyal Umar International Journal of Geosynthetics and Ground Engineering, Volume 7, Article Number 91

Impact Factor: - | **Citations:** 9
DOI: <https://doi.org/10.1007/s40891-021-00334-2>

Assessment of triple bottom line of sustainability for geotechnical projects 2021

Faisal Raza Badee Alshameri Syed Muhammad Jamil Environment, Development and Sustainability, Volume 23, Pages 4521-4558

Impact Factor: 4.080 | **Quartile:** 2 | **Citations:** 21
DOI: <https://doi.org/10.1007/s10668-020-00786-y>

Effects of different empirical tunnel design approaches on rock mass behaviour during tunnel widening 2019

Babar Khan Syed Muhammad Jamil Turab H. Jafri Kamran Akhtar Heliyon, Volume 5, Issue 12, e02944, Pages:20

Impact Factor: 0 | **Citations:** 9
DOI: [10.1016/j.heliyon.2019.e02944](https://doi.org/10.1016/j.heliyon.2019.e02944)

Tunnel support design by comparison of empirical and finite element analysis of the Nahakki tunnel in mohmand agency, Pakistan 2016

Asif Riaz Syed Muhammad Jamil Muhammad Asif Kamran Akhtar Studia Geotechnica et Mechanica, Volume 38, Issue 1, Pages 75-84

Impact Factor: - | **Citations:** 4
DOI: [10.1515/sgem-2016-0008](https://doi.org/10.1515/sgem-2016-0008)