

Personal Details	
Name	Dr. Sadia Moin
Email	sadiamoin@cloud.neduet.edu.pk
Education	
Ph.D.	Civil Engineering from NED University of Engineering & Technology Karachi in Oct 2024
M.Engg. (Civil)	(3.73/4.00 CGPA) Majors in Geotechnical Engineering from NED University of Engineering & Technology in Dec 2015
B.E (Civil Engineering)	(A Grade) From NED University of Engineering & Technology Karachi in Dec 2012
H.S.C (pre-engineering)	(A Grade) from Govt. Degree Girls College Gulshan in 2008.
S.S.C (Science)	(A ⁺ Grade) from H.N Public Secondary School Karachi in 2006
Professional Experience	
Academic Experience	
11 Aug 2016 to present	NED University of Engineering & Technology Karachi - Conducts theory and practical classes on the following courses: • Geology for Engineers • Soil mechanics I • Soil Mechanics II - Class Advisor (S.E) Civil Engineering and Construction Engineering - Lab Incharge of Geology Lab in the Department of Civil Engineering - Lab Incharge of Soil Mechanics in the Department of Civil Engineering
Industrial Experience	
7 Dec 2015 to 10 Aug 2016	Techno Consultant (intl.) (pvt.) Ltd. <u>Contracts Engineer:</u> Worked as a Contracts Engineer on the following two USAID-funded Projects. • A&E services for Jacobabad water, wastewater and solid waste infrastructure. • Monitoring, inspection, milestone certification and Design Review of Energy Projects.
20 Nov 2013 to 30 Nov 2015	Reliance Consultancy and Engineering Services (Pvt.) Ltd. <u>Contracts Engineer:</u> Worked for 2 years as a Contracts Engineer on the following projects. • Worked on ten projects of Pakistan Petroleum Limited Projects titled “Construction of Access Road and Well locations on different Locations in Pakistan.” • Civil Aviation Authority Project; “Construction of Thar Airport”. • Frontier Works Organization Project; “Construction of two bridges in sec III-B and Highway in Section IV of city Panjgur, Balochistan”
Research Skills	
Publications	Dr. Syeda Saria Bukhary and Sadia Moin – “Tree-ring based precipitation reconstruction for Skardu in the Upper Indus Basin”, <i>Journal of Xi'an Shiyu University, Natural Science Edition</i> , Vol 20, Issue 07, July 2024 Sadia Moin & Dr. Sadaf Qasim – “Effect on dynamic parameters of waste reinforced soil under vibrations generated through traffic loading: experimental evaluation”, published in <i>Journal of Engineering Research (JCR-SCIE listed)</i> , January 2024 (published online) DOI: https://doi.org/10.1016/j.jer.2023.12.011

	Dr. Syeda Saria Bukhary and Sadia Moin – “Dendroclimatic reconstruction of precipitation in northern Pakistan” (presented online as a poster presentation) in AGU24 Conference held in Washington D.C, 9th to 13th December, 2024 Sadia Moin, Dr. Amanullah Marri & Dr. Sadaf Qasim – “Effect of input parameters on dynamic characteristics of clayey soil through dynator, a non-destructive test” published in <i>Journal of Jilin University (Engineering and Technology Edition)</i>, Vol 42, Issue 11, November 2023. DOI: https://zenodo.org/doi/10.5281/zenodo.10123897 Amanullah Marri, Gul Muhammad, Zubair Ali, Sheeraz Hussain Siddique Yousufani, Sadia Moin – “Fibre and fabric characterization of soil bags used for erosion control of embankments” <i>Journal of Xi’an Shiyu University, Natural Science Edition</i>, Vol 20, Issue 01, January 2024 Amanullah Marri, Gul Muhammad, Fahim Ullah, Zubair Ali, Sadia Moin – “Effect of wheat straw on the dynamic properties of clayey soils” <i>Journal of Xi’an Shiyu University, Natural Science Edition</i>, Vol 20, Issue 01, January 2024 Sadaf Qasim, Sadia Moin, Halima Bano, Fahim Ullah, Reena Majid Memon, Furqan Khan, Faryal Sikander – “Students’ concern towards landslide issues in Northern hilly areas of Pakistan.” Published in <i>Journal of Xi’an Shiyu University Journal</i> Vol. 19, Issue 2 February 2023 Sadaf Qasim, Halima Bano, Sadia Moin, Sharafat Ali, Ejaz ul Haq, Hafiz Farhan, M.Maaz, M.Hamza, Furqan Khan, Faryal Sikander - “Probabilistic Analysis of the slope of NaiGaj Dam During Rainfall infiltration.” Published in <i>Journal of Xi’an Shiyu University Journal</i> Vol. 19, Issue 1 January 2023 Amanullah Marri, Mirwais, Sadia Moin, Gul Muhammad – “Effect of lime and wheat straw on the shear strength characteristics of clayey soil” presented in 10th International Civil Engineering Conference 2019, held on 22 & 23 February, 2019 in Karachi, Pakistan. (main Presenter) Danish Kazmi, Sadaf Qasim, I.S.H Harshap, Syed Baharom, M.Imran, Sadia Moin – “A Study on contributing factors of major landslides in Malaysia” published in <i>Civil Engineering Journal</i> vol.2 - no.12, December 2016
Supervision of Final Year Projects	Supervised several final year projects with senior faculty related to geotechnical engineering fields titled as: 1- Acid rain and temperature effects on soil 2- Treated and contaminated water effects on mechanical properties of soil 3- Slope stability through different vegetation covers 4- Effect of additives on dynamic characteristics of clay soil through the resonant column 5- Effect of fiber reinforcement on Compaction characteristics of clay soil 6- Effect of stabilizing agents on mechanical properties of clay soil. 7- The behavior of reinforced soil under static loading. 8- Effect of wheat straw and lime on the dynamic properties of clayey soil. 9- Effect of lime and wheat straw on the shear strength properties of clayey soil. 10- Probabilistic analysis of the slope of Nai Gaj Dam during Rainfall infiltration
Final Year Project	My final year project was based on the subject of structural analysis & design, titled “Design of multistoried buildings in seismic risk areas”. It is based on the comparison of manual and software calculations, and it gave the concept of back calculations and designing tools of the software.
Area of Interest	Soil-Structure Interaction, Soil Stabilization, Response of soil under Dynamic Loading
Other Activities	
Internship	Worked as internee in Design Department of M/s NESPAK (Pvt.) Ltd. in Jun-July 2011
Workshops	1. “Nonlinear FEA Demystified”, 2 days short course (30th April & 2nd May, 2024) on Nonlinear Computational Mechanics & Finite elements, organized in NEDUET by Dr. M. Asghar Bhatti (Professor in University of IOWA, USA)

	2. "Publication Ethics and Research Integrity in Science", by Springer Elsevier (virtual) on 11th May, 2022. 3. "BIM Awareness Session", by Civil department NEDUET on 24th and 29th July, 2021 4. "NEDUET Digital Library Resources", by NEDUET Karachi on 4th February, 2020. 5. "Performance Based Structural Design of Tall Buildings", by NEDUET Karachi with AIT Thailand on 21st April, 2018. 6. "Fraud Awareness and Prevention" by USAID Pakistan, Dated: 12th July, 2016. 7. "Becoming a high impact leader" by CCEE of NEDUET Karachi, Pakistan, Dated: 6th June, 2015.
Training	1. "Effective PhD Supervision" by NEDUET from 26th May to 6th June, 2025 2. "Time & stress management" by NEDUET on 20th January, 2022 3. "Quality management system" by NEDUET on 21st January, 2022 4. "Importance of journal publication" by NEDUET on 25th January, 2022 5. "Research engagement and management" by NEDUET on 26th January, 2022 6. "Academic and Industrial linkages" by NEDUET on 1st February, 2022 7. "Higher Education Teaching short course (Harvard training)" certified by NED & HEC (29th Jan to 28th May 2021) 8. "How To Utilize Proquest E-Books Collection In Teaching And Research" certified by Proquest education (20 October, 2020) 9. "HEC Digital Library Collection For Your Next Scholarly Research" certified by Proquest education (20 October, 2020) 10. "Computer-Aided Project Management with MS-Project 2010" certified by International Office Products (Pvt.) Ltd. One month (Sept & Oct 2012) training certified Program at Civil Engineering Department, NEDUET Karachi.
Seminars & Conferences	1. 14th International Civil Engineering Conference, held at NEDUET and IEP on 15th and 16th November, 2024. 2. "Forewarned is forearmed construction disputes avoidance and resolution", held at NEDUET, Karachi on 23rd December, 2023. 3. "GHAR- Green Housing, Affordable, Resilient challenges, and Opportunities", held at NEDUET, Karachi on November, 2023. 4. "Pakistan country climate and development report", held at NEDUET, Karachi on 14th March 2023. 5. "Navigating the pathways of publishing in High-quality journals by using Scopus", by Elsevier (virtual) on 15th November, 2022. 6. "Construction 4.0", held at NEDUET, Karachi on 24th March 2022. 7. "11th International Civil Engineering Conference" held at IEP, Karachi on 1st April 2021 8. Webinar "Geotechnical Infrastructure Sensing" by Kenchi Soga on 16th October, 2020. 9. "Skills for professional excellence at workplace" held at NEDUET on 13th January, 2020 10. Organizer and paper presenter in "10th International Civil Engineering Conference 2019", held on 22& 23 February, 2019 by NED and IEP Karachi.

11. **“Practical design of post tensioned building”**, seminar conducted at NEDUET by Engr. Khawaja Nizamuddin on 1st January, 2019)
12. **“Numerical modeling for coastal applications and marine forecasting”**, Seminar conducted at NEDUET by Saima Ejaz on 18 December, 2018
13. **“Cleaning Washington's Rivers, DC's Combined Sewer Overflow Project”**, Seminar conducted at NEDUET by Dr. Qamar A O Kazmi on 29 October, 2018.
14. **“Project Commercialization”**, conducted at Usman Institute of Technology on 22 April, 2018.
15. **“TC-22 Workshop on retrofitting and strengthening of existing structures”**, conducted at NEDUET on 24th February, 2018.
16. **“9th International Civil Engineering Congress”**, conducted at IEP Karachi on 22nd & 23rd December, 2017.
17. **“Cryptocurrency”**, seminar conducted at NEDUET Karachi by Economics Department on 15th December, 2017.
18. **“Performance Based Design of Tall Buildings”**, Seminar conducted at NEDUET Karachi with AIT Thailand on 24th November, 2017.
19. **“8th International Civil Engineering Congress”**, conducted at NEDUET & IEP Karachi on 28th & 29th December, 2016.
20. **“Business Ethics Communication and Data Controlling”**, Seminar conducted at NEDUET Karachi, Pakistan on 12th August, 2016.

Professional Registrations

Civil / 34195 Pakistan Engineering Council (PEC)

M-20040 Institutions of Engineers Pakistan