

MUHAMMAD SAAD IFRAHIM

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Career Objective

Seeking a challenging and stimulating role in a reputable organization where I can utilize my skills and expertise to contribute to the organization's success while enhancing my knowledge and professional growth.

Education

- Master of Engineering (ME) in Structural Engineering – NED University of Engineering & Technology (2019–2021) – CGPA: 3.68
- Bachelor of Engineering (BE) in Civil Engineering – NED University of Engineering & Technology (2016–2019) – CGPA: 3.841
- Intermediate (Pre-Engineering) – Chiniot Islamia College (2015) – Grade: A+
- Matriculation (Science) – The City Grammar School (2013) – Grade: A+

Certifications

- Introduction to Public Health Engineering in Humanitarian Contexts – École Polytechnique Fédérale de Lausanne (EPFL), Coursera
- Construction Scheduling – Columbia University, Coursera
- Microsoft Office Specialist (Word & PowerPoint 2016) – Microsoft
- nD Building Information Modelling (BIM) – CEMG, NED University of Engineering & Technology

Work Experience

- Lecturer, Civil Engineering Department, NED-UET (March 2023 – Present)
- Research Associate, Oil and Gas Investments Ltd / NED-UET (Jan 2022 – March 2023)
- Visiting Faculty, NED-UET (Nov 2021 – March 2022)
- Research Assistant, Center for Affordable Housing and Sustainable Built Environment, NED-UET (Nov 2019 – Dec 2021)

Academic Research & Projects

- Postgraduate Thesis: Effect of GFRP Confinement on RC Columns
- Undergraduate Thesis: Behavior of RC Beams Reinforced with GFRP

Publications

Journal Articles:

- Ifrahim, M.S., Sangi, A.J., & Ahmad, S.H. (2023). *Experimental and numerical investigation of flexural behaviour of concrete beams reinforced with GFRP bars*. **Structures**, **56**, 104951.
- Ifrahim, M.S., & Sangi, A.J. (2023). *Numerical modelling of circular reinforced concrete columns confined with GFRP spirals using fracture-plastic model*. **Computers and Concrete**, **31**(6), 527–536.

Conference Papers:

- Ifrahim, M.S., Sangi, A.J., & Hamza, S.M. (2022). *Experimental study on bond strength of locally manufactured GFRP bar*. **Engineering Proceedings**, **22**(1), 4.
- Ifrahim, M.S., Sangi, A.J., & Khan, S. (2025). *Experimental study on bond performance between concrete and BFRP bars*. **Construction Technologies and Architecture**, **15**, 85–92.
- Ifrahim, M.S., & Sangi, A.J. (2024). *Numerical study on flexural behaviour of steel–GFRP hybrid-reinforced concrete beams*. **Construction Technologies and Architecture**, **13**, 103–108.
- Ifrahim, M.S., & Sangi, A.J. (2024). *Experimental and numerical investigation of short concrete columns reinforced with BFRP bars under concentric loading*. **Technical Journal**, **3** (ICACEE), 148–157.
- Ifrahim, M.S., & Zafar, A. (2022). *Impact of window configurations on heating and cooling demands of building in a regional climate—A case study*. **Engineering Proceedings**, **22**(1), 2.

Achievements

- Ranked 6th in BE Civil Engineering (2015–2016 Batch)
- Winner of Student Competition on Engineered Cementitious Concrete, NED-UET (2016)
- Gold & Silver Medalist – Chiniot Islamia College (2016)

Technical Skills

- Programming: MATLAB, PYTHON
- Software: MS Office, ATENA, ETABS, SAP2000, SAFE, Response 2000, AutoCAD, Autodesk Revit, Adobe Illustrator

Soft Skills

- Strong presentation and communication skills (bilingual)
- Proficient in report writing and research paper writing

Workshops & Trainings

- 11th Doctoral School on Characterization Methods for Limestone Calcined Clay Cement (LC3) – Laboratory of Construction Materials (LMC), EPFL, Lausanne, Switzerland (Sept 2024)
 - Gained Hands-on experience in advanced characterization techniques for cementitious materials.
 - Attended lectures by leading experts on sustainable construction materials.
 - Networked with international researchers focused on reducing the carbon footprint of concrete.

Membership

- Pakistan Engineering Council – Registered Engineer
- RILEM Young member

Hobbies & Interests

- Book reading (novels, biographies, history, lyric poetry)
- Graphic designing
- Gardening