JAVED BARI, Ph.D. (USA), P.E. (USA), M.ASCE, FIEB
Professor | Former Dean & Department Chair, North South University, Bangladesh
Adjunct Professor, Arizona State University (ASU), USA
Infrastructure, Transport & Development Specialist | Project Evaluation & Institutional Strengthening
Licensed Professional Engineer (USA & Bangladesh)
Email: javed.bari86@gmail.com | javed.bari@northsouth.edu | jbari@asu.edu
Mobile / WhatsApp: +880 1743630729
Website: https://www.northsouth.edu/faculty-members/seps/cee/dr.-javed-bari.html
LinkedIn: linkedin.com/in/javed-bari-phd-pe-08550333

1. PROFESSIONAL SUMMARY

- Internationally experienced Civil and Transportation Engineer with 33+ years of professional experience in the United States and Bangladesh, spanning transport infrastructure, pavement engineering, development-project evaluation, institutional strengthening, and higher-education leadership.
- Directly contracted by the World Bank Bangladesh Office as Short-Term Consultant (STC) for transport-sector monitoring and institutional reform initiatives; currently serving as Lead Adviser for an Asian Development Bank Results-Based Lending (RBL) performance audit program exceeding USD 300 million.
- Principal Investigator (PI) of two ongoing Nippon Koei (Japan)-funded NK-NSU joint research projects on sustainable roadway design parameters for Bangladesh and dynamic traffic signal control for Dhaka, with a combined budget of BDT 5.13 million.
- Team Leader for in-depth and impact evaluations of major national infrastructure and development projects commissioned by IMED, Ministry of Planning, Government of Bangladesh; also served as Lead Civil Engineer for the final evaluation of the USAID Bangladesh Agricultural Infrastructure Development Program.
- Former Dean of the School of Engineering & Physical Sciences, North South University, with responsibility for an annual budget of approximately BDT 1.5 billion, 110 faculty members, and about 7,000 students; experienced in governance, accreditation, OBE, and strategic institutional planning.
- Internationally recognized contributor to the development and implementation of the AASHTO Mechanistic-Empirical Pavement Design Guide (MEPDG), including research supporting NCHRP 9-19 and implementation/calibration work at the Arizona Department of Transportation.

2. AREAS OF EXPERTISE

Infrastructure & Transport Systems

- Pavement design, analysis, rehabilitation, and performance assessment - AASHTO 1993 and MEPDG
- Highway geometric design and standards
- HDM-4-based highway design, asset management, and economic appraisal
- Road safety audit, iRAP-based assessment and expert-assessment
- Traffic engineering, multimodal transport planning, and crash data analytics.

Development Program Evaluation

- In-depth and Impact Evaluation of development projects (Planning Commission framework)
- Performance audit and DLI verification under RBL / PforR / IPF models of WB and ADB
- Socio-economic and environmental impact assessment
- Institutional capacity and governance assessment.

Governance & Institutional Strengthening

- Strategic planning and reform frameworks
- Accreditation (OBE / Washington Accord alignment)
- Public sector monitoring & compliance systems
- Technical manual development, training, and capacity building
- Results-based implementation oversight.

---

3. PROFESSIONAL LICENSURE

Professional Engineer (Civil), USA - Active license since 2005.

---

4. EDUCATION

Ph.D., Civil & Environmental Engineering, Arizona State University, USA | 2005
M.S., Civil & Environmental Engineering, Arizona State University, USA | 2001
B.Sc., Civil Engineering, Bangladesh University of Engineering & Technology (BUET) | 1993.

---

5. MULTILATERAL DEVELOPMENT EXPERIENCE

Short-Term Consultant (Direct Contract)
World Bank - Bangladesh Office | September 2014-June 2018
Second Rural Transport Improvement Project (RTIP-II), USD 417 million

- Supported monitoring and implementation oversight across 26 districts.
- Led development of road safety and road design training manuals for LGED.
- Contributed to institutional strengthening and capacity development frameworks.
- Assisted in formulation of PforR-type SupRB Bridge Maintenance Program.
- Subsequently appointed Team Leader for Final Performance Audit of Additional Financing (USD 170 million).

Team Leader - Final Evaluation
World Bank - Bangladesh Office | July 2022-June 2023
RTIP-II Additional Financing, USD 170 million

- Led comprehensive final evaluation of infrastructure and institutional components.
- Assessed physical outputs, governance performance, socio-economic impact, and environmental outcomes.
- Directed preparation and submission of the official World Bank evaluation report.

Lead Adviser - Performance Audit Consultancy
Asian Development Bank (RBL Program, Ministry of Finance) | September 2025-June 2026
Skills for Industry Competitiveness & Innovation Program (SICIP), USD 300+ million

- Evaluate DLI compliance and reform implementation progress.
- Assess governance systems, financial management practices, and sustainability mechanisms.
- Review cross-ministerial coordination and institutional alignment.
- Provide policy recommendations consistent with international best practices.

Lead Civil Engineer - Final Evaluation
USAID Program implemented by LGED | March 2019-December 2019
Bangladesh Agricultural Infrastructure Development Program (USD 50 million)

- Led final evaluation of rural infrastructure investments.
- Assessed infrastructure delivery performance and socio-economic-environmental outcomes.
- Contributed to preparation and publication of official USAID evaluation report.

---

6. GOVERNMENT INFRASTRUCTURE EVALUATION LEADERSHIP

Team Leader - National Infrastructure Project Evaluations
Implementation Monitoring & Evaluation Division (IMED) | January 2018-Present
Ministry of Planning, Government of Bangladesh
Led multidisciplinary consulting teams for in-depth and impact evaluations of major government infrastructure projects, covering technical, financial, environmental, road-safety, socio-economic, and implementation-performance dimensions. Examples of assignments include:

- Nabinagar-Ashuganj Road (BDT 6,486 million)
- Kishoreganj-Karimganj-Chamraghat Highway (BDT 7,313 million)
- Ishwardi Export Processing Zone (BDT 830 million)

Responsibilities

- Technical design review and cost validation
- Construction quality and contract compliance assessment
- Economic viability and impact analysis
- Environmental and road safety review
- Socio-economic-environmental impact evaluation
- Policy recommendations for future infrastructure programming

---

Team Leader - National Infrastructure Feasibility Study
Election Commission of Bangladesh | 2024

- Led feasibility study for construction of 66 server stations.
- Conducted engineering, financial, and institutional capacity assessments.
- Proposed phased implementation roadmap with risk mitigation framework.

---

7. INTERNATIONAL TECHNICAL EXPERIENCE (USA)

Senior Transportation Engineer (Team Leader)
Arizona Department of Transportation | May 2005-December 2010

- Led pavement engineering and road-safety initiatives across five Arizona counties, coordinating technical reviews and implementation activities.
- Championed implementation of AASHTO MEPDG in Arizona.

- Served as technical adviser for ADOT-sponsored research projects exceeding USD 1 million, linking research findings with agency practice.
- Contributed to calibration and validation of MEPDG models for Arizona climatic, materials, and traffic conditions.

Faculty (Adjunct Professor)
Department of Civil, Environmental and Sustainable Engineering
Arizona State University (ASU), Tempe, Arizona, USA | Since 2006

- Deliver Civil Engineering courses and manage the transportation engineering and materials lab, contributing to the academic and practical development of students.

Senior Research Specialist
Arizona State University, Tempe, Arizona, USA | January 2001-May 2005

- Key researcher in NCHRP 9-19 national project supporting MEPDG development.
- Co-developed AASHTO TP 62-03 dynamic modulus testing protocol.
- Developed predictive models adopted in pavement design practice.

---

8. ACADEMIC LEADERSHIP EXPERIENCE

Dean, School of Engineering & Physical Sciences
North South University | March 2019 - March 2024

Provided strategic and operational leadership for a school serving approximately 7,000 students with 110 faculty members and an annual budget of about BDT 1.5 billion.

Led academic quality, OBE/accreditation initiatives, resource planning, faculty development, and institutional coordination across engineering and physical-science programs.

Chair, Department of Civil & Environmental Engineering
North South University | March 2015 - June 2017

---

9. ACADEMIC EXPERIENCE

Professor, Department of Civil & Environmental Engineering
North South University | September 2013 - Present

Current Externally Funded Research Leadership

- Principal Investigator (PI), NK-NSU Joint Research Project - "Design Parameter of the Roadway Network of Bangladesh toward Sustainability" | Funded by Nippon Koei, Japan | Budget: BDT 2,319,167 | Ongoing
- Principal Investigator (PI), NK-NSU Joint Research Project - "Dynamic Traffic Signal Control Systems for Intersections in Dhaka" | Funded by Nippon Koei, Japan | Budget: BDT 2,807,541 | Ongoing

Professor, Dept. of Civil Engineering & **Director,** South Asian Disaster Management Center
IUBAT-International University of Business Agriculture and Technology | January 2011-August 2013

---

10. SELECTED TECHNICAL PUBLICATIONS & MAJOR REPORTS

Selected Peer-Reviewed & Technical Publications (60+)

- Bari et al. (2018-2026) - Road safety, infrastructure evaluation, transport management, and sustainable roads research presented at international conferences (e.g., ASCE, ICTD, Pavements, IRF, IEEE).
- Bari et al. (2005, 2007, 2025) - Predictive Models for MEPDG and innovative road designs at Transportation Research Record (TRR), USA.
- Bari and Haider et al. (2011) - Characterization of Asphalt Binders, ASCE ICTD, USA.
- Bari & Witczak (2006) - Revised Witczak E* Model, Journal of AAPT, USA.
- Bari & Witczak (2005) - Lime Modification & Dynamic Modulus, Transportation Research Record (TRR), Washington, DC, USA.

Selected Major Evaluation & Consultancy Reports

- Asian Development Bank and Ministry of Finance SICIP Performance Audit Report (2026).
- World Bank RTIP-II AF Final Evaluation Report (2022).
- USAID BAIDP Final Evaluation Report (2019).
- IMED (Ministry of Planning) Project In-Depth and Impact Evaluation Reports (2019-2026).

---

11. SELECTED TRAINING & CERTIFICATIONS

- Outcome-Based Education (OBE) & Accreditation: BAETE (Board of Accreditation for Engineering and Technical Education), Bangladesh
- Strategic Planning, Budgeting & Operational Management: USA
- Digital Learning & Faculty Evaluation Systems: Bangladesh
- Road Safety & Environmental Impact Assessment (EIA): World Bank
- Pavement Preservation & Asphalt Emulsions: USA.

---

12. TECHNICAL SOFTWARE & ANALYTICAL TOOLS

- Engineering & Pavement Analysis: AASHTOWare Pavement ME Design (PMED), KENPAVE, HDM-4.
- Road Safety & Transport Analysis: iRAP/ViDA, MAAP.
- Highway Design, CAD & GIS: InRoads, MicroStation, AutoCAD, ArcGIS Pro.
- Statistical & Analytical Tools: MATLAB, Minitab, Statistica, Design-Expert.
- Project Management & Productivity: Primavera, Microsoft Project, Microsoft Excel, Word, PowerPoint and Access.

---

13. REFERENCES

Professional references are available upon request.